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Industry
Wage Survey
**Machinery
Manufacturing,
Winter 1970-71**

Bulletin 1754

U. S. DEPARTMENT OF LABOR
Bureau of Labor Statistics
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U.S. DEPARTMENT OF LABOR
James D. Hodgson, Secretary
BUREAU OF LABOR STATISTICS
Geoffrey H. Moore, Commissioner
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Preface

This bulletin summarizes the results of a Bureau of Labor Statistics survey of wages and supplementary benefits in the nonelectrical machinery manufacturing industries in 22 selected areas in the winter of 1970-71. Separate releases for each of the areas were issued earlier and may be obtained from the Bureau of Labor Statistics, Washington, D.C. 20212, or any of its regional offices.

Occupational data are presented for the machinery industries as a whole in each area. Separate information on average hourly earnings by occupation also is presented for selected industries (e.g., special dies and tools, die sets, jigs and fixtures; machine-tool accessories; oil-field machinery) in 10 areas. The distributions of workers by occupational earnings for these industries are included in the individual area releases. Data on establishment practices and supplementary wage benefits are presented for the industries as a whole in each area.

The study was conducted in the Bureau's Office of Wages and Industrial Relations. The analysis was prepared by Homer W. Jack in the Division of Occupational Wage Structures. Field work for the survey was directed by the Assistant Regional Directors for Operations.

Other reports available from the Bureau's program of industry wage studies and the addresses of the Bureau's regional offices are listed at the end of this bulletin.

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Machinery Manufacturing

Summary

Average straight-time earnings of production and related employees in the nonelectrical machinery manufacturing industries increased 13 percent between the fall of 1968 and the winter of 1970-71 in 21 metropolitan areas surveyed by the Bureau of Labor Statistics.¹ The annual rate of increase for the 21 areas combined was 5.8 percent. The lowest rate of increase was about 4.5 percent in Baltimore, Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove, and Pittsburgh. The highest was 8.3 percent in Denver.

Based on occupational classifications common to all 22 areas surveyed in 1970-71 (Tulsa, Oklahoma, was surveyed for the first time in 1970-71), average hourly earnings were highest in San Francisco-Oakland and lowest in Tulsa. Tool and diemakers usually had the highest average among the jobs studied. Men producing tools and dies for sale (jobbing) averaged from \$5.95 in St. Louis to \$4.13 in Dallas. Those producing or maintaining tools and dies for use within the establishment (other than jobbing) had averages from a high of \$5.68 in San Francisco-Oakland to \$3.79 in Tulsa. Janitors, the lowest paid among the jobs studied in most areas, averaged from \$3.55 in San Francisco-Oakland to slightly less than \$2.50 in Baltimore, Dallas, and Tulsa.

Nearly all of the production workers were in establishments providing paid holidays, commonly 9 a year or more, and paid vacations. Typical vacation provisions ranged from 1 week's pay after 1 year of service to 4 weeks' pay after 20 or 25 years. At least part of the cost of life, hospitalization, and surgical insurance was provided to nine-tenths or more of the production workers; retirement pension plans covered at least three-fourths of the workers in almost all areas.

Industry characteristics

Products. A wide variety of products are manufactured by the nonelectrical machinery industries, ranging from staple removers and pencil sharpeners to large complex engines, turbines, and oil drilling rigs. The establishments studied² were classified according to their primary product. These categories are shown in the following tabulation along with the percent of production workers employed in each.

Total -----	100
Engines and turbines -----	8
Farm machinery -----	3
Construction and related machinery -----	17
Metalworking machinery -----	22
Special industry machinery -----	9
General industrial machinery -----	17
Office and computing machinery -----	9
Service industry machinery -----	7
Miscellaneous machinery, except electrical -----	9

NOTE: Because of rounding, sums of individual items do not equal 100.

Among the 22 areas in the study, the types of products manufactured varied considerably. In Houston, just over three-fourths of the workers were in establishments primarily producing oil-field

¹ See appendix B for scope and method of 1970-71 survey. This survey, including Tulsa, Oklahoma, for the first time, covered a total of 22 areas. Surveys conducted from 1955 through the fall of 1968 covered 21 areas. Wage data presented in this bulletin exclude premium pay for overtime and for work on weekends, holidays, and late shifts.

² The survey included establishments primarily engaged in manufacturing nonelectrical machinery. Omitted from the survey were (1) establishments with fewer than eight workers primarily manufacturing special dies, tools, jigs and fixtures, or machine-tool accessories, and (2) other nonelectrical machinery establishments with fewer than 20 workers.

machinery (part of the construction and related machinery category). In Worcester, almost three-fifths were in establishments manufacturing metalworking machinery, and in Tulsa, about the same proportion was in establishments producing construction and related equipment. With the exception of the Hartford area, where just over one-half of the employees were in establishments manufacturing general industrial machinery, no one product category accounted for a majority of the workers in the remaining areas.

Employment. The 22-area survey covered 36 percent of the approximately 1,205,800 production and related workers estimated to be employed in the industry (nationwide) at the time of the study.³ Production employment, according to the survey, ranged from 4,000 to 8,000 workers in Baltimore, Denver, Portland, San Francisco-Oakland, Tulsa, and Worcester to 71,000 in Chicago. The next four largest machinery centers studied were Detroit (49,400), the Los Angeles⁴ and Milwaukee areas (approximately 36,000 each), and Philadelphia (30,500).

For the 21 areas comparable to both the 1968 and 1970-71 surveys, the aggregate employment of production workers decreased from 505,900 to 432,300—down 14.5 percent. Proportionally, the declines were largest (20 to 24 percent) in Cleveland, Detroit, Los Angeles, and Worcester and ranged from 10 to 20 percent in 10 other areas. The only area showing any significant increase was Dallas—up nearly 7 percent.

Employment dropped most dramatically for workers with the least experience and skill. For example, the number of class C machine-tool operators (those with the least experience and skill) dropped by 6,300, or 35 percent, between the 1968 and 1970-71 surveys. In contrast, class A operators dropped 1,200, or 2½ percent, and class B operators, 5,000, or 15 percent. This pattern was repeated for the three classes of assemblers and inspectors studied.

In the combined 22 areas, employment was fairly evenly divided between establishments employing fewer than 100 workers (28 percent), 100 to 999 workers (38 percent), and 1,000 workers or more

(33 percent). Only in the New York area, were a majority of the employees in establishments with fewer than 100 workers. In Baltimore, Hartford, and Milwaukee, most of the workers were in establishments employing at least 1,000 workers.

Processes. Production methods used in the manufacture of nonelectrical machinery have many similarities and generally include machining, assembling (floor, bench, or conveyor line), and inspecting. Depending on a firm's particular organization and the product it manufactures, casting, forging, stamping, heat-treating, polishing, plating, and painting also may be part of the production process. Tools, dies, and fixtures are items frequently manufactured to meet customers' specifications, while products having a large demand usually are mass produced.

One of the newest technological developments in the mass production process is the use of numerically controlled (N/C) machine tools. This technique permits the automatic operation of the machine through the use of electronic devices (control units) and programed changeable tapes. The control unit interprets coded tape instructions, prepared in advance by a programmer, and directs the machine tool through the programed sequence of machining operations while controlling such functions as machine speeds and feeds, movement of the tool, flow of coolant, and even selection of the proper preset cutting tool for each operation.

For the first time in its machinery surveys, the Bureau developed information on the number of operators on these N/C machine tools. Of the nearly 81,000 men machine-tool operators on production in the survey, only 3,100 were operating N/C machines. The largest concentrations numbered approximately 600 in Philadelphia and almost 400 in Chicago. The survey recorded just over 200 N/C machine operators in each of four

³ Nationwide employment as reported in the Bureau's Employment and Earnings series.

⁴ Refers to the combined areas of Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove.

areas, Cleveland, Houston, Milwaukee, and Minneapolis—St. Paul, and no more than 50 in each of seven other areas. Numerically controlled machines were used in making a variety of machinery products including oil-field and construction machinery, machine tools, metalworking and woodworking machinery, pumps and compressors, and printing equipment.

Another arrangement frequently used by machinery manufacturers is the multiple operation of machine tools. In the 22 areas combined, 38 percent of the workers were employed in establishments that made use of this multiple operation system. Commonly referred to as "bank operations," this system permits one employee to simultaneously operate two or more production machine tools of the same type. Approximately one-sixth of the workers assigned to multiple operations received separate wage differentials for such work.

Unionization. Establishments with collective bargaining agreements covering a majority of their plantworkers employed two-thirds of the work force covered by the survey. As indicated in the following tabulation, the proportions of workers in such establishments varied widely among the areas:

Buffalo, Pittsburgh, Milwaukee, St. Louis, Portland, and San Francisco—Oakland	80—89
Hartford—New Britain—Bristol, Tulsa, Cleveland, and Minneapolis—St. Paul	70—79
Newark and Jersey City, New York, Philadelphia, Chicago, and Detroit	60—69
Boston and Houston	50—59
Worcester and Baltimore	40—49
Dallas and Denver	30—39
Los Angeles—Long Beach and Anaheim— Santa Ana—Garden Grove	20—29

Most workers in the survey covered by bargaining agreements were represented by the Machinists (IAM), Auto Workers (UAW), or the Steelworkers (USA).

Union representation was not nearly as extensive among the officeworkers of the establishments.⁵ The proportion of employees in plants in which a majority of the officeworkers were covered by agreements (those in separate central

offices were excluded from the study) was almost 50 percent in Buffalo, between 10 and 30 percent in Cleveland, Newark and Jersey City, New York, Philadelphia, and Pittsburgh, and less than 10 percent in the remaining 16 areas.

Method of wage payment. Three-fourths or more of the plantworkers in all areas except Milwaukee were paid on a time-rated basis, usually under formal plans that provided for ranges of rates for specific occupations. (See table 26.) Informal systems, which based rates primarily on the qualifications of individual workers, applied to two-fifths of the employees in New York, three-tenths in Newark and Jersey City, and about one-fifth in Los Angeles, Cleveland, and Dallas. Incentive wage systems applied to approximately two-fifths of the workers in Milwaukee and to about one-fourth of the workers in Buffalo, Hartford, and Worcester. In nine areas, less than one-tenth of the workers were paid on incentive systems.

Sex. Women accounted for about 10 percent of the plant work force in the 22 areas surveyed. They made up about 20 percent of the workers in Minneapolis—St. Paul and Hartford and 15 percent or less in the remaining areas. Among the occupations selected for separate study, women were employed most frequently as assemblers, inspectors, and machine-tool operators assigned to the routine and less difficult tasks.

Trends in earnings

Between September—November 1968 and the winter of 1970—71, average straight-time hourly earnings of plantworkers covered by the survey increased 13 percent or at an average annual rate of 5.8 percent. During the period, the average annual rates in individual areas ranged from about 4.5 percent in Baltimore, Los Angeles, and Pittsburgh to 8.3 percent in Denver. (See text table 1.) In the other areas, increases were between 5.5 and 7.5 percent.

⁵ Wage information was not developed for office clerical employees.

Text table 1. Percent increases in average hourly earnings¹ of production workers in nonelectrical machinery manufacturing in selected areas and occupations and indexes of average hourly earnings²

Area and occupation	Percent increases in average earnings prorated on an annual basis ³								Indexes (1966-68=100) ⁴	
	1960 to 1961	1961 to 1962	1962 to 1963	1963 to 1964	1964 to 1965	1965 to 1966	1966 to 1968	1968 to 1970	September- November 1968	Winter 1970-71
All areas combined -----	2.6	2.6	2.7	2.7	2.3	3.6	5.7	5.8	106.3	120.1
<u>Areas</u>										
Baltimore -----	3.7	1.9	4.9	3.0	2.4	3.5	5.0	4.6	106.0	116.4
Boston -----	3.7	3.0	2.8	1.4	1.8	4.1	5.9	7.1	106.7	123.0
Buffalo -----	3.2	1.9	3.5	3.2	2.9	2.2	5.9	6.3	106.3	120.7
Chicago -----	1.3	2.8	3.4	3.7	2.0	2.5	6.5	7.2	107.0	125.1
Cleveland -----	1.9	3.8	2.7	2.7	2.4	3.3	4.9	5.2	105.3	117.0
Dallas -----	2.9	2.6	2.6	4.0	2.8	3.5	6.6	7.2	107.0	124.3
Denver -----	2.4	1.0	2.7	2.6	2.7	2.8	7.0	8.3	108.4	128.0
Detroit -----	2.6	1.8	2.6	2.1	2.4	3.1	7.0	5.9	107.6	122.5
Hartford -----	3.7	2.4	3.2	3.9	2.1	3.5	5.9	5.7	106.8	119.3
Houston -----	-.2	2.1	1.9	1.4	2.0	4.7	5.3	5.8	105.6	118.7
Los Angeles—Long Beach and Anaheim— Santa Ana—Garden Grove -----	3.3	3.0	3.4	1.0	3.8	4.3	5.1	4.6	105.6	116.0
Milwaukee -----	3.2	2.6	2.7	2.6	1.3	4.6	5.2	6.5	105.9	122.0
Minneapolis—St. Paul -----	4.7	2.0	2.5	4.1	2.4	4.5	5.6	7.1	107.3	123.2
Newark and Jersey City -----	3.6	3.0	2.7	4.7	1.6	3.1	5.9	6.3	104.1	117.5
New York -----	3.8	3.7	3.0	3.1	1.4	4.1	3.9	5.8	107.0	120.9
Philadelphia -----	2.8	2.4	1.2	2.3	2.4	2.4	5.2	6.4	105.6	123.2
Pittsburgh -----	2.3	1.6	.6	1.2	1.6	4.4	3.3	4.5	103.7	113.1
Portland (Oreg.—Wash.) -----	1.8	3.5	2.9	3.1	3.7	2.4	6.8	5.7	107.4	120.0
St. Louis -----	3.8	5.1	3.1	2.3	2.9	3.2	7.5	5.7	105.4	121.0
San Francisco—Oakland -----	2.6	2.5	3.0	2.7	5.3	3.9	6.5	6.7	106.2	122.2
Worcester -----	4.2	2.7	3.7	2.1	3.0	4.6	4.9	6.4	105.6	120.3
<u>Occupations</u>										
Laborers, material handling -----	3.5	2.1	2.9	3.3	1.8	3.0	5.6	7.3	106.4	123.9
Tool and diemakers (other than jobbing) -----	3.1	2.5	2.4	3.3	2.5	4.1	7.2	5.5	107.8	121.1

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

² For indexes of earlier years, see appendix A.

³ Changes which vary from area to area are for payroll periods approximately a year apart. Because the intervals between the 1965 and 1966, 1966 and 1968, and 1968 and 1970 surveys were over 1 year, the percents of change since 1961 have been adjusted to reflect annual changes. The compound effect of wage changes was considered in computing the annual percent of change between the 1966 and 1968, and the 1968 and 1970 surveys.

⁴ For methods used to construct indexes, see appendix B.

NOTE: To determine the percent change for all areas combined, material handling laborers, and tool and diemakers (other than jobbing), the payroll references used were October 1968 and December 1970.

As indicated in text table 2, these average annual rates of increase were usually less than those recorded for skilled and unskilled plantworkers in all manufacturing establishments within the same city. These findings are based on comparisons of wage increases between nonelectrical machinery manufacturing industries and the manufacturing segment of the Bureau's area wage studies.⁶

⁶ The Bureau's area wage survey program covers establishments in the following industry divisions: Manufacturing; transportation, communication, and other public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and selected services. Only wage data from the manufacturing division, however, was used in the above comparisons. Area wage surveys are conducted annually in 90 metropolitan areas throughout the country. Tulsa was not included in the nonelectrical machinery survey in 1968 and Hartford is not included in the regular area wage survey program.

Text table 2. Comparisons of percent increases between average hourly earnings¹ in selected skilled and unskilled occupations in nonelectrical machinery manufacturing and all manufacturing industries prorated on an annual basis, 1968 to 1970-71

Area	Nonelectrical machinery manufacturing	All manufacturing industries ²
Baltimore -----	4.6	4.7
Boston -----	7.1	7.1
Buffalo -----	6.3	6.6
Chicago -----	7.2	7.1
Cleveland -----	5.2	6.6
Dallas -----	7.2	7.8
Denver -----	8.3	7.7
Detroit -----	5.9	7.4
Houston -----	5.8	6.8
Los Angeles--Long Beach and Anaheim-- Santa Ana--Garden Grove -----	4.6	7.1
Milwaukee -----	6.5	7.7
Minneapolis--St. Paul -----	7.1	7.6
Newark and Jersey City -----	6.3	6.8
New York -----	5.8	7.4
Philadelphia -----	6.4	6.5
Pittsburgh -----	4.5	5.3
Portland (Oreg.--Wash.) -----	5.7	7.4
St. Louis -----	5.7	6.4
San Francisco--Oakland -----	6.7	7.2
Worcester -----	6.4	6.9

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

² Based on percent increases of average hourly earnings reported in the Bureau's area wage survey program for men in skilled maintenance trades and in unskilled plant jobs. The percent changes for these two groups in manufacturing plants were combined to produce the all manufacturing increases presented in this table.

In some areas, the payroll reference period for the area wage survey did not correspond exactly with the one used in the machinery study. To minimize these differences, the increases recorded for the 1968-71 period were prorated on an annual basis.

Much of the increases in average hourly earnings in nonelectrical machinery manufacturing resulted from wage-rate changes granted through collective bargaining or individually by employers. However, the machinery industries' principal method of wage payment (one-half of the workers paid under ranges of rates for specified jobs) coupled with declining employment was a contributing factor to the advancing averages. This increase reflects the tendency of workers at the low end of the pay scale, usually the ones with least seniority, to be laid off in larger proportions than their higher paid co-workers. When this occurs, job averages may rise even though pay rates remain unchanged.

For all areas combined, material handling laborers had a 7.3 percent annual increase between the two survey periods, and tool and diemakers (other than jobbing) a 5.5 percent rise. This marks the first time since 1964 that the percentage increase for the lesser skilled job was

greater than that recorded for tool and diemakers, but the relationship was consistent with the one commonly found in surveys conducted during the 1950's.

The Bureau's wage-rate index for all production workers in the nonelectrical machinery industries stood at 120.1 (1966-68=100) at the time of the 1970-71 study. The corresponding indexes were 123.9 for material handling laborers and 121.1 for tool and diemakers (other than jobbing).

Occupational earnings

A number of occupations were selected to represent wage levels of production workers in nonelectrical machinery manufacturing. (See table 1.) Among these occupations, which accounted for 54 percent of the work force, tool and diemakers usually had the highest average hourly earnings. Men producing tools and dies for sale (jobbing) averaged from

\$5.95 in St. Louis to \$4.13 in Dallas. Men producing or manufacturing tools and dies for use within the establishment (other than jobbing) averaged from \$5.68 in San Francisco-Oakland to \$3.79 in Tulsa.

Machine-tool operators on production were the largest occupational group studied and, for survey purposes, were classified into three skill groups. Operators who set up their own machines and perform a variety of machining operations to close tolerances (class A) averaged from \$5.11 in San Francisco-Oakland to \$3.37 in Tulsa; the corresponding range for the intermediate group of operators (class B) was \$4.17 in Newark and Jersey City to \$2.98 in Dallas. Averages for operators who perform routine repetitive operations and do not set up the machines (class C) were highest in St. Louis (\$3.53) and lowest in Dallas (\$2.54).

In most areas, janitors were the lowest paid occupation, and their averages ranged from \$3.55 in San Francisco-Oakland to slightly less than \$2.50 in Baltimore, Dallas, and Tulsa. Hourly averages for material handling laborers, another relatively low-paid job, ranged from \$3.79 in San Francisco-Oakland to \$2.50 in Tulsa.

Based on occupational classifications common to all areas, San Francisco-Oakland recorded the highest average and Tulsa, the lowest. The relative pay levels, using Chicago as base = 100, are presented in text table 3. It shows that pay levels relative to Chicago declined in nearly all areas between 1968 and 1970-71. During this period, pay levels in Chicago increased at a faster rate than in most of the other areas. (See text table 1.)

Text table 3. Relative area pay levels, nonelectrical machinery manufacturing, 22 selected areas, winter 1970-71 and September-November 1968

(Chicago = 100)

Area	Pay levels ¹	
	1970-71	1968
San Francisco-Oakland -----	110	112
Detroit -----	107	110
St. Louis -----	105	109
Milwaukee -----	102	103
Portland -----	102	107
Chicago -----	100	100
Cleveland -----	94	99
Denver -----	94	96
Newark and Jersey City -----	93	97
Buffalo -----	92	95
Hartford -----	92	96
Philadelphia -----	92	92
Los Angeles-Long Beach and Anaheim- Santa Ana-Garden Grove -----	91	96
Minneapolis-St. Paul -----	91	93
Pittsburgh -----	91	96
Boston -----	90	90
Houston -----	88	91
New York -----	88	91
Worcester -----	88	90
Baltimore -----	87	93
Dallas -----	79	80
Tulsa -----	78	-

¹ Average hourly earnings for men in 10 occupational classifications common to all areas were used in computing the relative pay levels. To minimize interarea differences in occupational composition, weights expressing constant employment relationships based on total 1970-71 employment in respective jobs in the combined 22 areas were used. Aggregates were computed for each area by multiplying the average straight-time earnings for the jobs by these weights and totaling. The ratio of these aggregates formed the basis for the relatives.

The interarea spread in average straight-time hourly earnings varied by occupation. Class A grinding-machine operators in Denver, for instance, averaged 51 percent more than their counterparts in Tulsa. The corresponding spread for tool and diemakers (other than jobbing) was 34 percent, and for class A assemblers, 9 percent.

Where comparisons were possible, workers paid under incentive wage systems usually had higher average earnings than time-rated workers in the same occupation and area. (See table 2.) Differences in averages between time and incentive workers varied by occupation and area. For example, class A and class B assemblers paid under incentive wage systems in Cleveland averaged 27 and 22 percent, respectively, more than their time-rated counterparts. The corresponding differences in Chicago were 8 and 18 percent. The preceding discussion of occupational earnings related to men in the jobs selected for separate study. Where possible, tables 4 through 25 provide earnings data for women in a few of the occupations studied.

Earnings of individuals, determined largely under systems providing ranges of rates for specified occupations, varied considerably within the same job and area. (See tables 4 through 25.) Earnings of the highest paid workers frequently exceeded those of the lowest paid workers in the same job and area by \$1 an hour or more. Thus, some workers in comparatively low-paid jobs earned more than some workers in jobs for which significantly higher averages were recorded. For example, the following tabulation indicates a considerable earnings overlapping for men class A milling-machine operators and class B assemblers in Philadelphia, despite a 69-cent difference in the hourly averages of the two jobs.

Earnings	Class B assemblers	Class A milling-machine operators
Under \$3.40-----	449	14
\$3.40 and under \$3.60-----	101	29
\$3.60 and under \$3.80-----	120	62
\$3.80 and under \$4.00-----	32	50
\$4.00 and under \$4.20-----	25	71
\$4.20 and under \$4.40-----	-	19
\$4.40 and over-----	9	30
Total workers-----	736	275
Average hourly earnings-----	\$3.23	\$3.92

Establishment practices and supplementary wage provisions

Information was obtained on shift differential provisions and practices for production workers. Data on work schedules and selected supplementary benefits, including paid holidays, paid vacations, and health, insurance, and retirement plans were obtained for both plantworkers and officeworkers.

Scheduled weekly hours. Work schedules of 40 hours a week were in effect in establishments employing two-thirds or more of the production workers in each area. (See table 27.) Except in Baltimore and Philadelphia, most of the remaining production workers had weekly work schedules of more than 40 hours. Officeworkers also were typically scheduled for 40 hours a week except in New York, where schedules of less than 40 hours applied to a majority of the workers. (See table 28.)

Between the 1968 and 1970 surveys, the proportions of plantworkers on schedules exceeding 40 hours a week declined in 18 areas. These declines were largest in Cleveland (from 48 percent to 17 percent), Dallas (from 48 to 24 percent), Hartford (35 to 22), Milwaukee (35 to 15), and Worcester (37 to 24).

Shift differential provisions and practices. In nearly all areas surveyed in 1970-71, establishments employing 80 percent or more of the production workers had provisions for late shift operations, with extra pay above day shift rates. (See table 29.) The proportions of workers actually employed on second shifts, however, ranged from 5 to 9 percent in Newark and Jersey City and New York, from 10 to 19 percent in 16 areas, and from 20 to 24 percent in Denver, Tulsa, Pittsburgh, and Houston. (See table 30.) Third shift employment accounted for 12 percent of the workers in Houston, about 7½ percent in Baltimore and Pittsburgh, and 6 percent or less in the remaining areas. Shift differentials usually paid on a cents-per-hour basis or as a percentage of day shift rates, varied widely among and within areas.

Paid holidays. Nearly all plantworkers and officeworkers were provided paid holidays. (See tables 31 and 32.) In 16 of

the 22 areas, at least a majority of the plantworkers received 9 days or more a year. In the remaining areas (most commonly in the South), provisions for 8 or 9 days typically applied. With some exceptions, paid holiday provisions for office-workers were generally similar to those for plantworkers within the same area.

Paid vacations. Paid vacations were provided to plantworkers and officeworkers by virtually all of the establishments. (See tables 33 and 34.) Typical provisions for production workers in most areas were 1 week's pay after 1 year of service, 2 weeks' pay after 2 or 3 years, 3 after 10, and 4 after 20 or 25 years. Officeworker provisions generally were similar to those for plantworkers, except the office staff usually received 2 weeks' pay after 1 year of service.

Health, insurance, and retirement plans. Nine-tenths or more of the plantworkers and seven-eighths or more of the officeworkers in each area were in establishments providing life, hospitalization, and surgical insurance. (See tables 35 and 36.) At least seven-tenths of the plantworkers and officeworkers were covered by basic medical insurance in all areas, by accidental death and dismemberment insurance in 17 areas, and by major medical insurance in 14 areas. Employers usually paid the entire cost of these benefits. About seven-tenths of the plantworkers and officeworkers in nearly all areas were provided sickness and accident insurance, sick leave plans, or both. Plans providing normal dental services were rarely reported in the survey, except for plantworkers in New York and plantworkers and officeworkers in San Francisco-Oakland and Portland.

Retirement pension plans (other than social security) were available to three-fourths or more of the production and officeworkers in nearly all of the areas and usually were financed entirely by the employers. Retirement severance pay plans were not common.

Apprenticeship and training programs. Formal apprenticeship or training programs were found in all areas except Tulsa. For survey purposes, apprenticeship programs were limited to those registered with either the Federal or State Government. These programs are primarily designed to train young workers, under the supervision of skilled journeymen, to become proficient in skilled crafts or trades. Most apprenticeship programs outline a 4-year curriculum of on-the-job experience and related instruction. Training programs, on the other hand, refer to company operated plans that involve both classroom instruction and workplace experience and may require at least 1 year for the trainee to complete. As shown below, the percent of production workers in establishments operating formal apprenticeship or training programs varied substantially by areas.

Area	Formal apprenticeship program	Formal training program	Both types of programs
Baltimore -----	47	(1)	39
Boston -----	(1)	5	(1)
Buffalo -----	36	9	5
Chicago -----	33	8	(1)
Cleveland -----	26	20	(1)
Dallas -----	5	(1)	(1)
Denver -----	17	47	(1)
Detroit -----	30	6	16
Hartford -----	19	(1)	37
Houston -----	44	5	(1)
Los Angeles—Long Beach and Anaheim—Santa Ana—Garden Grove ----	6	(1)	(1)
Milwaukee -----	14	18	30
Minneapolis—St. Paul ----	9	8	(1)
Newark and Jersey City ---	18	5	16
New York -----	7	13	6
Philadelphia -----	22	9	(1)
Pittsburgh -----	7	11	30
Portland (Oreg.—Wash.) ---	28	(1)	(1)
St. Louis -----	12	(1)	23
San Francisco—Oakland ---	31	(1)	(1)
Tulsa -----	(1)	(1)	(1)
Worcester -----	28	15	(1)

¹ Estimates from 0 to 4 percent.

Percent increase in average straight-time hourly earnings, nonelectrical machinery manufacturing in 21 areas, April 1961 to specified dates

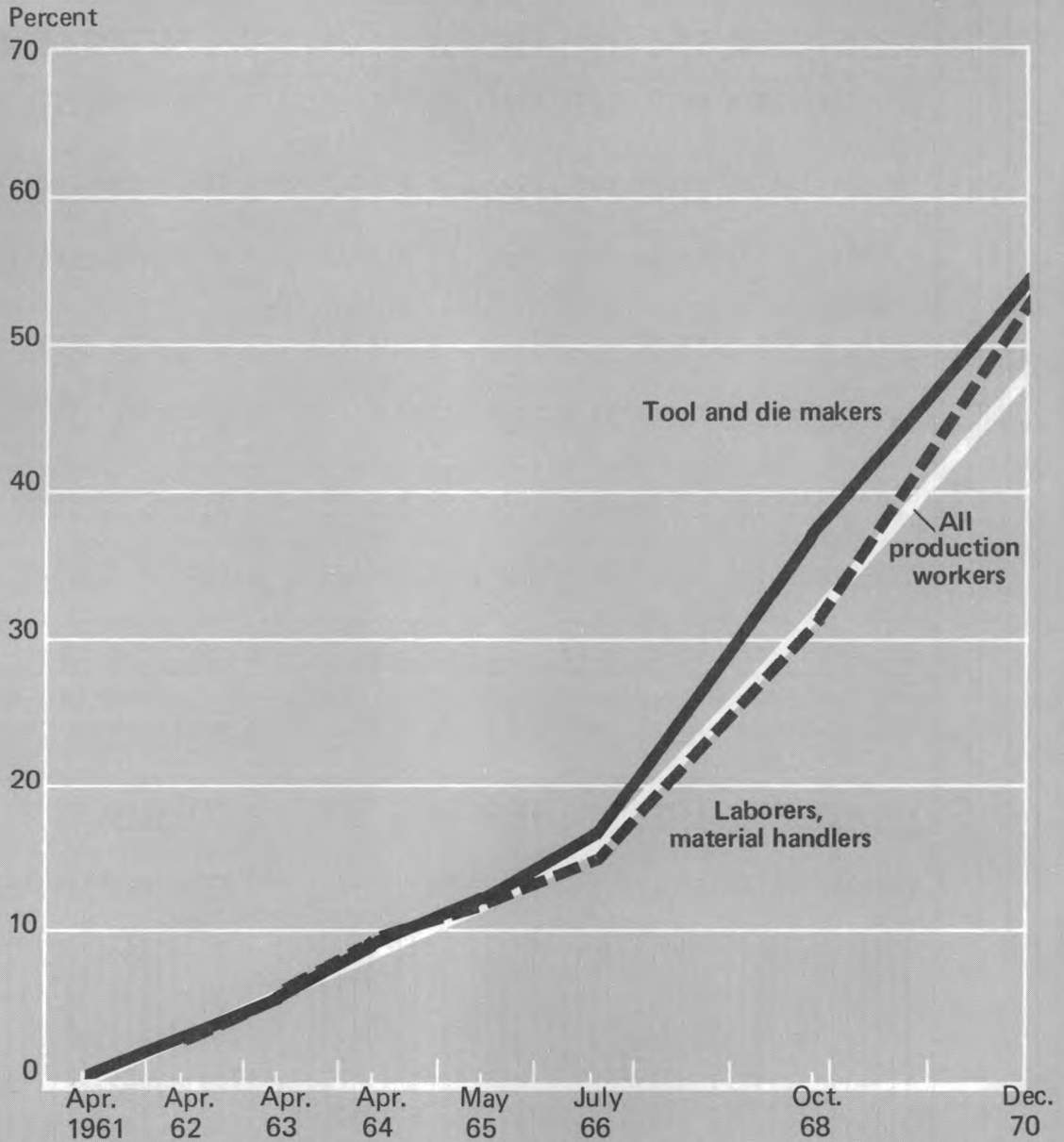


Table 1. Occupational averages in 22 areas: Men

(Number and average straight-time hourly earnings¹ of men in selected occupations in machinery manufacturing establishments, winter 1970-71)

Occupation	Boston		Buffalo		Hartford-New Britain		Newark and Jersey City		New York		Philadelphia		Pittsburgh		Worcester	
	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
Assemblers, class A	644	\$3.94	216	\$3.94	481	\$3.93	603	\$3.97	843	\$3.97	1,338	\$3.84	378	\$3.96	251	\$3.77
Assemblers, class B	420	3.34	278	3.65	402	3.27	884	3.20	843	3.20	1,338	3.23	287	3.77	374	3.78
Assemblers, class C	166	2.96	98	3.51	274	3.38	189	3.06	885	2.67	2,084	3.76	149	3.77	88	3.43
Carpenters, maintenance	21	3.82	98	3.51	16	4.10	26	3.94	885	2.67	2,084	3.76	149	3.77	88	3.43
Electricians, maintenance	60	4.07	69	4.05	107	4.76	127	4.72	128	4.00	2,084	3.76	149	3.77	88	3.43
Inspectors, class A	190	3.88	107	4.05	169	3.78	218	4.11	140	4.00	2,084	3.76	149	3.77	88	3.43
Inspectors, class B	91	3.48	102	3.65	120	3.42	205	3.97	134	3.55	2,084	3.76	149	3.77	88	3.43
Inspectors, class C	27	3.03	27	3.21	50	3.46	93	2.24	134	3.55	2,084	3.76	149	3.77	88	3.43
Laborers, porters, and cleaners	185	2.83	73	2.84	174	3.09	258	2.66	344	2.51	3,344	3.91	1,978	3.88	712	3.82
Laborers, material handling	104	3.08	173	3.12	203	3.16	252	3.00	364	2.88	2,944	3.14	1,611	2.95	71	2.76
Machinists, production, class A ²	1,482	4.04	1,102	3.84	1,482	3.87	1,654	3.95	1,654	3.95	3,344	4.07	1,978	3.88	712	3.82
Machinists, production, class B ²	696	3.41	335	3.67	1,742	3.80	1,190	4.17	1,330	3.23	2,084	3.76	149	3.77	88	3.43
Machinists, production, class C ²	290	3.03	88	3.50	490	3.49	290	3.20	651	2.65	680	3.04	218	2.97	36	2.97
Automatic lathe operators (including hand screw machine)	75	3.59	29	3.86	95	3.51	124	3.82	70	3.43	260	3.87	39	3.75	22	3.22
Turret-lathe operators, hand	18	3.36	34	3.81	262	4.06	-	-	217	3.36	294	3.74	58	3.46	72	3.55
Screw-machine operators, automatic	72	3.46	94	3.59	1,004	3.86	90	3.78	196	3.11	403	3.73	152	3.73	83	3.37
Grinding-machine operators	78	3.39	94	3.59	1,004	3.86	22	3.68	87	3.42	403	3.73	152	3.73	83	3.37
Engine-lathe operators	96	3.38	101	3.83	101	3.83	22	3.68	87	3.42	403	3.73	152	3.73	83	3.37
multiple-spindle	29	3.24	65	3.34	78	3.12	78	3.12	181	3.01	145	2.90	44	3.11	42	3.43
Drill-press operators, single- or	29	3.24	65	3.34	78	3.12	78	3.12	181	3.01	145	2.90	44	3.11	42	3.43
Drill-press operators, radial	44	3.43	33	3.52	29	3.36	36	3.64	45	3.53	101	3.36	22	3.51	33	3.34
Automatic lathe operators, radial	44	3.43	33	3.52	29	3.36	36	3.64	45	3.53	101	3.36	22	3.51	33	3.34
Drill-press operators, single- or	15	3.07	35	3.05	71	3.41	46	3.46	218	2.92	71	2.79	11	2.83	11	2.83
Engine-lathe operators	15	3.07	35	3.05	71	3.41	46	3.46	218	2.92	71	2.79	11	2.83	11	2.83
Grinding-machine operators	21	2.70	223	3.56	81	3.52	71	3.30	85	2.50	187	3.32	72	3.32	13	2.94
Milling-machine operators	13	2.94	81	3.52	81	3.52	71	3.30	85	2.50	187	3.32	72	3.32	13	2.94
Turret-lathe operators, hand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Screw-machine operators, automatic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, toolroom (operate one type of machine)	46	4.01	84	4.25	166	4.72	472	4.28	33	3.82	172	4.05	118	4.32	-	-
Machine-tool operators, toolroom (operate more than one type of machine)	52	3.70	118	4.07	251	4.29	432	4.04	122	3.44	142	4.23	134	4.04	-	-
Machinists, maintenance	28	4.34	42	4.12	249	4.81	-	-	52	4.32	150	4.17	-	-	-	-
Machinists, production	382	4.08	220	4.30	66	3.65	165	3.62	151	4.11	583	4.08	144	4.03	76	3.92
Mechanics, maintenance	41	4.02	64	4.13	17	3.77	36	4.07	42	3.61	208	4.19	121	4.00	23	3.85
Polishers and buffing-machine operators	111	3.41	-	-	83	3.57	55	3.69	236	3.01	66	3.79	25	3.14	-	-
Punch-press operators, class A	99	3.38	-	-	67	3.60	103	3.49	85	3.54	46	3.63	-	-	-	-
Punch-press operators, class B	169	2.90	37	3.54	67	3.60	277	2.88	154	2.64	113	3.28	-	-	-	-
Setup men, machine tools	39	3.87	555	4.00	555	4.00	615	4.41	233	3.76	199	3.86	-	-	-	-
Tool and die makers (jobbing)	89	4.51	278	4.42	361	4.20	615	4.41	233	3.76	199	3.86	-	-	-	-
Tool and die makers (other than jobbing)	132	4.33	60	4.28	382	4.51	417	4.39	172	4.61	267	4.61	-	-	-	-
Tool clerks	79	3.45	35	3.37	116	3.37	85	3.50	94	4.61	267	4.61	-	-	-	-
Welders, hand, class A	214	3.70	203	3.59	104	4.20	280	4.01	167	3.15	241	3.61	-	-	-	-
Welders, hand, class B	96	3.42	59	3.59	32	3.60	178	3.45	228	3.28	241	3.61	-	-	-	-
Welders, machine, class A	16	3.39	-	-	-	-	-	-	100	3.98	241	3.61	-	-	-	-
Welders, machine, class B	-	-	-	-	-	-	-	-	111	2.79	241	3.61	-	-	-	-

See footnotes at end of table.

Table 1. Occupational averages in 22 areas: Men—Continued

(Number and average straight-time hourly earnings¹ of men in selected occupations in machinery manufacturing establishments, winter 1970-71)

Occupation	South								North Central					
	Baltimore		Dallas		Houston		Tulsa		Chicago		Cleveland		Detroit	
	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
Assemblers, class A	248	\$3.88	338	\$3.44	403	\$3.80	270	\$3.33	3,857	\$4.29	1,516	\$4.05	1,276	\$4.99
Assemblers, class B	104	3.32	279	2.89	460	3.21	275	2.98	1,897	3.83	651	3.50	2,653	4.16
Assemblers, class C	53	2.73	269	2.34	85	2.89	166	2.73	639	3.30	288	3.10	777	3.99
Carpenters, maintenance	-	-	-	-	-	-	-	-	71	4.34	27	4.21	40	4.75
Electricians, maintenance	51	3.95	30	3.69	143	4.41	13	3.41	400	4.83	180	4.32	205	5.10
Inspectors, class A	85	4.10	111	3.62	336	4.02	81	3.39	969	4.29	296	4.12	368	4.62
Inspectors, class B	66	3.55	127	2.99	177	3.74	24	3.14	655	3.92	249	3.98	661	4.25
Inspectors, class C	12	3.21	27	2.68	-	-	9	2.74	260	3.64	49	3.73	107	4.11
Janitors, porters, and cleaners	92	2.46	139	2.45	286	2.61	67	2.47	1,052	3.09	400	3.09	906	3.51
Laborers, material handling	79	2.98	117	2.61	228	2.90	78	2.50	1,929	3.28	306	3.50	730	3.74
Machine-tool operators, production, class A ²	722	3.83	639	3.59	1,857	3.86	422	3.37	8,063	4.43	3,605	4.14	4,831	4.65
Automatic-lathe operators	8	4.12	72	3.38	279	3.81	90	3.33	435	4.40	167	3.91	-	-
Drill-press operators, radial	42	4.28	26	3.37	93	3.83	30	3.15	681	4.41	204	4.07	106	4.62
Drill-press operators, single- or multiple-spindle	29	3.41	53	3.26	81	3.63	-	-	364	4.01	138	4.19	114	4.25
Engine-lathe operators	143	3.57	100	3.68	234	3.89	69	3.35	869	4.47	243	4.10	261	4.76
Grinding-machine operators	72	3.82	45	3.69	132	3.85	38	3.38	1,393	4.37	761	4.32	1,807	4.64
Milling-machine operators	100	3.96	96	3.66	260	3.82	31	3.28	916	4.38	434	4.26	579	4.79
Screw-machine operators, automatic	21	4.31	47	3.73	-	-	-	-	388	4.68	189	4.40	206	4.49
Turret-lathe operators, hand (including hand screw machine)	86	3.81	138	3.57	449	3.90	82	3.42	827	4.30	416	4.07	433	4.54
Machine-tool operators, production, class B ²	533	3.34	478	2.98	1,146	3.52	212	3.01	3,667	3.89	1,480	3.85	5,077	4.16
Automatic-lathe operators	-	-	56	2.84	104	3.58	-	-	149	3.46	110	3.70	108	4.19
Drill-press operators, radial	-	-	11	2.96	64	3.26	27	2.84	284	4.02	97	3.60	529	4.11
Drill-press operators, single- or multiple-spindle	30	3.12	33	2.83	110	3.46	-	-	545	3.75	174	3.86	-	-
Engine-lathe operators	71	3.09	22	3.02	122	3.45	-	-	240	3.67	71	3.97	134	4.13
Grinding-machine operators	-	-	31	3.01	187	3.65	-	-	541	4.03	331	3.97	1,605	4.12
Milling-machine operators	60	3.49	65	3.04	100	3.54	-	-	483	3.92	178	4.09	498	4.15
Screw-machine operators, automatic	-	-	19	3.21	-	-	-	-	54	4.03	-	-	188	4.30
Turret-lathe operators, hand (including hand screw machine)	47	2.99	91	3.02	166	3.44	31	2.92	409	3.87	127	3.84	317	4.05
Machine-tool operators, production, class C ²	199	2.90	277	2.54	260	3.02	87	2.95	1,602	3.37	351	3.14	1,157	3.32
Automatic-lathe operators	-	-	64	2.39	-	-	-	-	-	-	-	-	-	-
Drill-press operators, radial	-	-	-	-	13	2.68	-	-	28	3.10	-	-	-	-
Drill-press operators, single- or multiple-spindle	-	-	36	2.58	-	-	-	-	288	3.21	25	3.17	109	3.57
Engine-lathe operators	-	-	-	-	33	2.88	-	-	23	3.78	-	-	-	-
Grinding-machine operators	-	-	17	2.60	45	3.25	-	-	348	3.26	97	3.35	554	3.18
Milling-machine operators	18	3.47	-	-	-	-	-	-	141	3.16	53	3.34	202	3.51
Screw-machine operators, automatic	-	-	-	-	-	-	-	-	30	3.49	-	-	-	-
Turret-lathe operators, hand (including hand screw machine)	-	-	52	2.62	30	3.19	-	-	110	3.23	-	-	-	-
Machine-tool operators, toolroom (operate one type of machine)	-	-	-	-	46	4.02	-	-	876	5.14	499	4.41	2,959	5.26
Machine-tool operators, toolroom (operate more than one type of machine)	71	3.93	175	3.77	210	4.02	16	3.52	1,250	4.76	190	4.07	770	4.98
Machinists, maintenance	60	4.16	11	3.62	126	4.31	-	-	232	4.58	35	4.42	260	4.92
Machinists, production	218	4.07	60	3.84	1,172	4.08	313	3.89	127	4.54	-	-	185	4.54
Mechanics, maintenance	47	3.79	41	3.49	186	4.22	33	3.43	383	4.53	188	4.30	305	4.97
Polishers and buffers, metal	131	3.59	-	-	-	-	-	-	269	4.69	49	4.06	143	4.31
Polishing- and buffing-machine operators	-	-	-	-	44	3.31	-	-	198	3.09	157	3.59	50	4.04
Punch-press operators, class A	48	3.44	85	3.12	-	-	-	-	503	3.93	124	3.73	-	-
Punch-press operators, class B	-	-	75	2.38	-	-	-	-	576	3.36	187	3.09	238	3.90
Setup men, machine tools	100	4.04	-	-	-	-	-	-	411	4.33	88	4.05	741	4.51
Tool and die makers (jobbing)	-	-	115	4.13	-	-	-	-	1,888	5.61	1,046	4.60	3,355	5.39
Tool and die makers (other than jobbing)	99	4.29	83	4.17	117	4.43	33	3.79	753	4.98	458	4.45	351	5.32
Tool clerks	26	3.01	47	3.05	137	3.46	26	2.93	348	3.84	163	3.67	243	3.96
Welders, hand, class A	88	3.93	232	3.54	598	4.00	198	3.54	2,440	4.35	672	3.66	638	4.47
Welders, hand, class B	45	3.57	89	2.90	278	3.59	42	3.26	571	4.68	368	3.30	796	4.02
Welders, machine, class A	-	-	30	3.31	-	-	-	-	176	4.31	-	-	37	4.27
Welders, machine, class B	-	-	24	2.74	94	2.74	-	-	231	3.42	15	3.71	11	4.23

See footnotes at end of table.

Table 1. Occupational averages in 22 areas: Men—Continued

(Number and average straight-time hourly earnings¹ of men in selected occupations in machinery manufacturing establishments, winter 1970-71)

Occupation	North Central—Continued						West							
	Milwaukee		Minneapolis—St. Paul		St. Louis		Denver		Los Angeles—Long Beach and Anaheim—Santa Ana—Garden Grove		Portland		San Francisco—Oakland	
	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
Assemblers, class A.....	1,134	\$4.50	1,236	\$3.81	671	\$4.42	219	\$3.63	903	\$3.90	370	\$4.44	170	\$4.77
Assemblers, class B.....	1,386	4.03	797	3.31	566	3.57	96	3.42	665	3.16	162	3.91	284	3.88
Assemblers, class C.....	527	3.73	205	3.20	560	3.16	-	-	573	2.63	10	3.63	103	3.63
Carpenters, maintenance.....	18	4.40	-	-	10	4.46	-	-	37	4.35	-	-	-	-
Electricians, maintenance.....	224	4.56	39	5.65	99	4.68	-	-	100	4.34	-	-	32	5.51
Inspectors, class A.....	627	4.26	374	4.06	90	4.71	71	4.12	459	4.15	55	4.47	122	4.79
Inspectors, class B.....	425	3.92	103	3.90	-	-	36	3.51	186	3.61	-	-	-	-
Inspectors, class C.....	106	3.57	18	3.29	-	-	-	-	85	2.75	-	-	-	-
Janitors, porters, and cleaners.....	412	3.33	343	3.04	222	3.05	84	2.86	411	2.70	56	3.36	46	3.55
Laborers, material handling.....	873	3.32	384	3.33	397	3.16	45	2.94	171	3.16	49	3.76	51	3.79
Machine-tool operators, production, class A ²	3,134	4.51	2,403	4.01	1,095	5.01	492	4.39	3,471	4.16	644	4.46	623	5.11
Automatic-lathe operators.....	149	4.68	143	4.14	62	4.72	6	4.09	148	4.29	35	4.36	-	-
Drill-press operators, radial.....	240	4.32	160	3.90	43	4.68	30	4.73	137	3.88	52	4.43	-	-
Drill-press operators, single- or multiple-spindle.....	130	4.69	162	3.78	-	-	6	4.11	102	3.56	-	-	-	-
Engine-lathe operators.....	352	4.43	215	4.10	134	5.26	148	4.05	637	4.17	218	4.50	-	-
Grinding-machine operators.....	242	4.59	175	3.97	71	4.89	44	5.10	793	4.16	-	-	-	-
Milling-machine operators.....	313	4.42	359	4.00	152	5.09	83	4.54	358	4.05	77	4.49	-	-
Screw-machine operators, automatic.....	172	4.66	27	4.14	-	-	-	-	100	4.14	-	-	91	5.01
Turret-lathe operators, hand (including hand screw machine).....	586	4.34	277	4.04	104	4.67	69	4.81	598	4.11	144	4.45	48	4.79
Machine-tool operators, production, class B ²	2,371	4.07	770	3.52	578	3.86	186	3.69	1,526	3.51	196	3.87	290	3.96
Automatic-lathe operators.....	107	3.99	26	3.71	-	-	-	-	75	3.50	-	-	-	-
Drill-press operators, radial.....	345	3.92	101	3.53	46	4.45	-	-	94	3.43	60	3.93	21	3.94
Drill-press operators, single- or multiple-spindle.....	264	4.06	134	3.41	74	4.02	33	3.54	187	3.23	25	3.72	41	3.91
Engine-lathe operators.....	135	4.07	-	-	-	-	40	3.33	174	3.58	-	-	-	-
Grinding-machine operators.....	299	4.22	71	3.40	54	4.08	31	3.77	134	3.36	-	-	94	4.11
Milling-machine operators.....	301	3.93	93	3.63	54	3.96	15	4.02	197	3.36	-	-	37	3.95
Screw-machine operators, automatic.....	-	-	-	-	37	4.04	-	-	74	3.88	-	-	-	-
Turret-lathe operators, hand (including hand screw machine).....	311	3.98	41	3.55	71	3.64	26	4.41	223	3.52	24	3.98	26	4.09
Machine-tool operators, production, class C ²	306	3.39	567	3.27	194	3.53	22	3.48	588	2.60	-	-	-	-
Automatic-lathe operators.....	13	3.73	-	-	-	-	-	-	-	-	-	-	-	-
Drill-press operators, radial.....	73	3.59	-	-	-	-	-	-	7	2.96	-	-	-	-
Drill-press operators, single- or multiple-spindle.....	49	2.95	102	3.29	62	3.46	-	-	211	2.31	-	-	-	-
Engine-lathe operators.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators.....	18	3.81	-	-	-	-	-	-	94	2.34	-	-	-	-
Milling-machine operators.....	23	3.79	-	-	-	-	-	-	18	3.08	-	-	-	-
Screw-machine operators, automatic.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine).....	-	-	-	-	-	-	-	-	29	2.96	-	-	-	-
Machine-tool operators, toolroom (operate one type of machine).....	245	4.51	-	-	48	4.93	6	4.35	373	4.77	-	-	-	-
Machine-tool operators, toolroom (operate more than one type of machine).....	309	4.55	55	4.29	237	5.42	72	3.96	276	4.45	-	-	77	5.10
Machinists, maintenance.....	102	4.38	30	3.95	63	4.84	22	4.26	96	4.11	14	4.52	42	5.12
Machinists, production.....	-	-	42	4.30	577	5.11	39	3.72	894	4.24	-	-	542	4.94
Mechanics, maintenance.....	192	4.56	95	4.22	76	4.67	34	3.93	83	4.30	-	-	-	-
Polishers and buffers, metal.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polishing- and buffing-machine operators.....	-	-	-	-	42	4.01	-	-	54	3.28	-	-	-	-
Punch-press operators, class A.....	169	3.96	150	3.77	239	3.77	-	-	108	3.57	-	-	-	-
Punch-press operators, class B.....	151	3.66	-	-	112	3.31	-	-	223	2.86	-	-	22	3.88
Setup men, machine tools.....	-	-	20	4.07	77	4.49	6	3.71	22	4.45	-	-	-	-
Tool and diemakers (jobbing).....	508	5.08	493	5.06	418	5.95	-	-	1,004	4.83	-	-	123	5.85
Tool and diemakers (other than jobbing).....	325	5.01	322	4.69	229	5.25	90	5.06	270	4.69	11	4.74	137	5.68
Tool clerks.....	137	3.76	53	3.55	29	3.52	34	3.48	140	3.26	7	3.97	43	3.89
Welders, hand, class A.....	760	4.25	817	4.09	410	4.54	129	3.93	824	4.10	410	4.46	335	4.77
Welders, hand, class B.....	812	3.93	316	3.85	86	3.36	69	3.59	246	3.58	-	-	-	-
Welders, machine, class A.....	199	4.43	-	-	-	-	-	-	218	4.25	-	-	-	-
Welders, machine, class B.....	70	3.48	41	3.28	-	-	27	3.24	159	3.49	-	-	-	-

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

² Includes data for operators of other machine tools in addition to those shown separately.

NOTE: Dashes indicate no data reported or data that do not meet publication criteria.

Table 2. Occupational averages in 10 areas: By method of wage payment

(Number and average straight-time hourly earnings¹ of men in selected occupations in machinery manufacturing establishments, winter 1970-71)

Occupation	Northeast									
	Boston		Hartford-New Britain-Bristol		Newark and Jersey City		New York		Philadelphia	
	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
Assemblers, class A:										
Timeworkers.....	500	\$ 3.63	121	\$ 3.95	655	\$ 3.96	593	\$ 3.96	1,269	\$ 3.79
Incentive workers.....	144	5.20	95	3.92	134	3.82	10	4.59	69	4.66
Assemblers, class B:										
Timeworkers.....	386	3.27	134	3.43	332	3.51	829	3.18	722	3.20
Incentive workers.....	34	4.16	-	-	149	3.72	14	4.65	-	-
Assemblers, class C:										
Timeworkers.....	164	2.95	174	3.30	144	2.91	694	2.56	412	2.79
Incentive workers.....	-	-	100	3.52	45	3.52	-	-	-	-
Machine-tool operators, production, class A:										
Timeworkers.....	1,136	3.85	1,280	3.88	1,381	3.98	1,485	3.92	2,994	4.04
Incentive workers.....	346	4.68	202	3.85	311	3.84	-	-	350	4.36
Machine-tool operators, production, class B:										
Timeworkers.....	655	3.37	1,133	3.84	-	-	1,285	3.21	1,609	3.59
Incentive workers.....	41	4.06	-	-	177	3.86	45	3.85	-	-
Machine-tool operators, production, class C:										
Timeworkers.....	286	3.03	180	3.04	194	3.27	534	2.65	645	2.99
Incentive workers.....	-	-	310	3.75	96	3.06	-	-	-	-
	Northeast—Continued					North Central				
	Worcester		Chicago		Cleveland		Milwaukee		St. Louis	
Assemblers, class A:										
Timeworkers.....	185	\$ 3.85	3,350	\$ 4.25	1,184	\$ 3.82	655	\$ 4.18	643	\$ 4.39
Incentive workers.....	-	-	507	4.58	332	4.86	479	4.95	-	-
Assemblers, class B:										
Timeworkers.....	114	3.36	1,448	3.68	530	3.36	862	3.76	415	3.26
Incentive workers.....	-	-	449	4.33	121	4.09	524	4.47	-	-
Assemblers, class C:										
Timeworkers.....	24	3.27	561	3.15	255	2.96	322	3.52	541	3.10
Incentive workers.....	-	-	78	4.41	33	4.18	205	4.07	-	-
Machine-tool operators, production, class A:										
Timeworkers.....	574	3.72	6,194	4.35	2,833	3.92	1,635	4.31	689	4.84
Incentive workers.....	138	4.26	1,869	4.70	772	4.97	1,499	4.73	-	-
Machine-tool operators, production, class B:										
Timeworkers.....	221	3.35	2,555	3.74	1,234	3.68	1,322	3.88	384	3.64
Incentive workers.....	-	-	1,112	4.23	246	4.74	1,049	4.31	194	4.29
Machine-tool operators, production, class C:										
Timeworkers.....	35	2.97	1,369	3.30	326	3.07	162	3.35	146	3.33
Incentive workers.....	-	-	233	3.75	25	4.02	-	-	48	4.15

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

NOTE: Dashes indicate no data reported or data that do not meet publication criteria.

Table 3. Occupational averages in 10 areas: By selected industries

(Number and average straight-time hourly earnings¹ of men in selected occupations in establishments primarily manufacturing selected products, winter 1970-71)

Occupation	Chicago						Cleveland		Detroit			
	Special dies and tools ²		Machine-tool accessories ³		Construction machinery equipment ⁴		Special dies and tools ²		Special dies and tools ²		Machine-tool accessories ³	
	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
Assemblers, class A.....	-	-	51	\$4.61	856	\$4.29	-	-	64	\$5.37	71	\$5.15
Assemblers, class B.....	-	-	64	3.49	425	3.96	-	-	56	4.22	15	4.04
Assemblers, class C.....	-	-	-	-	-	-	-	-	-	-	-	-
Electricians, maintenance.....	-	-	21	4.41	126	5.14	8	\$4.02	7	4.67	14	5.01
Inspectors, class A.....	19	\$4.42	23	4.04	312	4.56	20	4.09	-	-	98	4.67
Inspectors, class B.....	-	-	31	3.81	-	-	-	-	-	-	51	4.21
Janitors, porters, and cleaners.....	86	2.96	59	2.97	117	3.75	51	2.65	202	3.21	149	3.28
Laborers, material handling.....	-	-	31	3.16	358	4.04	-	-	49	4.04	33	4.05
Machine-tool operators, production, class A ⁵	-	-	366	4.37	1,491	4.51	-	-	-	-	2,109	4.68
Engine-lathe operators.....	-	-	32	4.37	87	4.32	-	-	-	-	109	4.71
Grinding-machine operators.....	-	-	152	4.64	119	4.66	-	-	-	-	1,240	4.63
Milling-machine operators.....	-	-	51	4.36	101	4.63	-	-	-	-	388	4.79
Screw-machine operators, automatic.....	-	-	31	4.50	-	-	-	-	-	-	71	4.80
Turret-lathe operators, hand (including hand screw machine).....	-	-	47	3.78	117	4.15	-	-	-	-	94	4.74
Machine-tool operators, production, class B ⁵	263	3.67	337	3.91	575	4.24	230	3.71	159	4.18	1,353	4.15
Grinding-machine operators.....	43	3.80	128	4.12	-	-	60	3.66	-	-	721	4.16
Milling-machine operators.....	-	-	43	4.02	84	4.34	-	-	-	-	287	4.20
Turret-lathe operators, hand (including hand screw machine).....	-	-	50	3.38	43	4.04	-	-	-	-	67	3.61
Machine-tool operators, production, class C ⁵	56	3.05	209	3.41	-	-	-	-	86	3.41	529	3.42
Drill-press operators, single- or multiple-spindle.....	36	2.97	17	3.85	-	-	-	-	-	-	-	-
Grinding-machine operators.....	-	-	49	3.26	-	-	-	-	-	-	224	3.56
Milling-machine operators.....	-	-	12	3.18	-	-	-	-	-	-	179	3.40
Machine-tool operators, toolroom (operate one type of machine).....	486	5.48	35	4.49	184	5.03	363	4.35	2,583	5.23	-	-
Machine-tool operators, toolroom (operate more than one type of machine).....	752	4.74	13	4.72	9	4.13	78	3.94	643	5.02	-	-
Machinists, maintenance.....	-	-	29	4.42	-	-	-	-	7	5.22	-	-
Mechanics, maintenance.....	14	4.64	104	4.97	-	-	17	4.20	70	5.26	73	4.75
Punch-press operators, class B.....	179	3.23	17	3.55	28	3.54	94	2.77	-	-	-	-
Tool and diemakers (jobbing).....	1,768	5.61	-	-	-	-	883	4.59	3,283	5.38	-	-
Tool and diemakers (other than jobbing).....	-	-	24	4.96	111	5.46	-	-	-	-	30	5.32
Tool clerks.....	45	4.02	-	-	99	4.16	-	-	69	3.81	15	4.14
Welders, hand, class A.....	-	-	7	4.69	1,304	4.52	-	-	103	4.36	26	4.72

See footnotes at end of table.

Table 3. Occupational averages in 10 areas: By selected industries—Continued

(Number and average straight-time hourly earnings¹ of men in selected occupations in establishments primarily manufacturing selected products, winter 1970-71)

Occupation	Los Angeles—Long Beach and Anaheim—Santa Ana—Garden Grove		Milwaukee		New York		Philadelphia	
	Oil field machinery ⁶		Special dies and tools ²		Paper and printing trades machinery ⁷		Textile machinery ⁸	
	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
Assemblers, class A.....	110	\$3.86	-	-	181	\$4.06	136	\$3.53
Assemblers, class B.....	-	-	-	-	114	3.43	-	-
Assemblers, class C.....	-	-	-	-	51	2.86	16	2.72
Electricians, maintenance.....	24	4.24	-	-	15	3.99	9	3.87
Inspectors, class A.....	77	3.99	-	-	32	4.02	-	-
Inspectors, class B.....	26	3.47	-	-	18	3.54	-	-
Janitors, porters, and cleaners.....	37	3.04	15	\$2.98	52	2.73	34	2.92
Laborers, material handling.....	32	3.33	-	-	50	2.91	-	-
Machine-tool operators, production, class A ⁵	506	4.03	-	-	268	4.03	292	3.74
Engine-lathe operators.....	47	4.32	-	-	26	4.11	32	4.00
Grinding-machine operators.....	82	3.97	-	-	27	4.08	38	3.79
Milling-machine operators.....	62	3.89	-	-	37	4.14	46	3.65
Screw-machine operators, automatic.....	-	-	-	-	-	-	29	3.87
Turret-lathe operators, hand (including hand screw machine).....	75	4.31	-	-	28	4.19	-	-
Machine-tool operators, production, class B ⁵	108	3.59	-	-	154	3.53	-	-
Grinding-machine operators.....	-	-	-	-	-	-	-	-
Milling-machine operators.....	10	3.33	-	-	40	3.59	20	3.21
Turret-lathe operators, hand (including hand screw machine).....	20	3.77	-	-	10	3.93	11	3.20
Machine-tool operators, production, class C ⁵	13	2.94	-	-	64	2.87	-	-
Drill-press operators, single- or multiple-spindle.....	-	-	-	-	17	2.84	-	-
Grinding-machine operators.....	-	-	-	-	-	-	-	-
Milling-machine operators.....	-	-	-	-	-	-	-	-
Machine-tool operators, toolroom (operate one type of machine).....	-	-	120	4.70	-	-	-	-
Machine-tool operators, toolroom (operate more than one type of machine).....	26	4.32	57	4.44	-	-	-	-
Machinists, maintenance.....	29	4.22	-	-	16	3.95	27	3.83
Mechanics, maintenance.....	22	4.06	-	-	-	-	-	-
Punch-press operators, class B.....	-	-	64	3.04	-	-	47	3.05
Tool and diemakers (jobbing).....	-	-	508	5.08	-	-	-	-
Tool and diemakers (other than jobbing).....	22	4.36	-	-	16	4.19	38	4.43
Tool clerks.....	16	3.46	-	-	15	3.07	14	3.30
Welders, hand, class A.....	166	4.02	-	-	11	3.94	39	3.77

See footnotes at end of table.

Table 3. Occupational averages in 10 areas: By selected industries—Continued

(Number and average straight-time hourly earnings¹ of men in selected occupations in establishments primarily manufacturing selected products, winter 1970-71)

Occupation	Boston		Hartford-New Britain-Bristol		Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove		Newark and Jersey City		New York	
	Special dies and tools and machine-tool accessories ⁹									
	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
Inspectors, class A.....	14	\$4.02	31	\$3.76	79	\$4.36	18	\$4.04	-	-
Inspectors, class B.....	7	3.51	40	3.37	11	3.21	-	-	-	-
Janitors, porters, and cleaners.....	-	-	16	2.67	70	2.64	89	2.47	27	\$2.11
Laborers, material handling.....	-	-	-	-	-	-	36	2.98	-	-
Machine-tool operators, production, class A ⁵	118	3.78	516	3.89	312	4.27	123	3.94	-	-
Engine-lathe operators.....	-	-	37	3.86	-	-	-	-	-	-
Grinding-machine operators.....	40	3.87	229	3.94	52	3.93	42	3.81	-	-
Milling-machine operators.....	23	4.06	80	3.65	-	-	-	-	-	-
Machine-tool operators, production, class B.....	113	3.31	267	3.47	253	3.58	170	3.43	246	3.02
Engine-lathe operators.....	-	-	21	3.63	-	-	11	3.41	-	-
Grinding-machine operators.....	24	3.10	184	3.43	-	-	-	-	51	3.52
Machine-tool operators, production, class C.....	54	2.78	101	3.27	60	2.43	97	2.84	88	2.50
Grinding-machine operators.....	-	-	40	3.26	-	-	38	2.78	-	-
Machine-tool operators, toolroom (operate one type of machine).....	-	-	-	-	352	4.80	326	3.96	-	-
Machine-tool operators, toolroom (operate more than one type of machine).....	31	3.65	40	3.79	141	4.64	335	3.82	-	-
Punch-press operators, class B.....	-	-	-	-	-	-	63	2.59	-	-
Tool and diemakers (jobbing).....	89	4.51	319	4.19	944	4.86	615	4.41	156	4.23
Tool and diemakers (other than jobbing).....	-	-	25	4.13	74	4.98	-	-	-	-

- ¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
- ² Includes data for establishments classified in SIC 3544.
- ³ Includes data for establishments classified in SIC 3545.
- ⁴ Includes data for establishments classified in SIC 3531.
- ⁵ Includes data for operators of machine tools in addition to those shown separately.
- ⁶ Includes data for establishments classified in SIC 3533.
- ⁷ Includes data for establishments classified in SIC 3554 and 3555.
- ⁸ Includes data for establishments classified in SIC 3552.
- ⁹ Includes data for establishments classified in SIC 3544 and 3545.

NOTE: Dashes indicate no data reported or data that do not meet publication criteria.

Table 4. Occupational earnings: Baltimore, Md.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			\$1.70 and under	\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$4.80 and over
			\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$4.80 and over	
Men																													
Assemblers, class A	248	\$3.88	-	-	-	-	-	-	-	-	-	1	2	-	9	7	18	23	10	27	69	6	-	5	20	8	3	43	
Time	230	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	4	18	21	7	27	68	5	-	5	20	8	-	-	
Assemblers, class B ⁴	104	3.32	-	-	-	-	-	-	-	-	-	2	7	16	4	16	2	29	3	12	5	-	-	1	7	-	-	-	
Assemblers, class C	53	2.73	-	-	-	8	-	6	2	6	2	5	5	3	10	-	-	2	4	-	-	-	-	-	-	-	-	-	
Time	50	2.69	-	-	-	8	-	6	2	6	2	5	5	3	10	-	-	2	4	-	-	-	-	-	-	-	-	-	
Electricians, maintenance (all timeworkers)	51	3.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	2	12	21	6	1	-	-	-	
Inspectors, class A (all timeworkers)	85	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	6	20	38	12	-	7	1	-	
Inspectors, class B	66	3.55	-	-	-	-	-	-	-	-	-	4	-	-	-	7	2	10	13	22	8	8	-	-	-	-	-	-	
Time	56	3.51	-	-	-	-	-	-	-	-	-	4	-	-	-	7	2	10	13	22	8	8	-	-	-	-	-	-	
Inspectors, class C	12	3.21	-	-	-	-	-	-	-	-	1	4	-	1	3	1	1	1	2	1	1	1	-	-	-	-	-	-	
Time	9	3.18	-	-	-	-	-	-	-	-	1	-	-	-	2	1	1	-	1	1	1	-	-	-	-	-	-	-	
Janitors, porters, and cleaners (all timeworkers)	92	2.46	-	3	1	31	2	9	3	4	5	7	3	3	4	8	3	2	-	-	-	-	-	-	-	-	-	-	
Laborers, material handling (all timeworkers)	79	2.98	-	-	-	-	-	-	3	3	4	18	3	13	-	-	-	11	10	14	-	-	-	-	-	-	-	-	
Machine-tool operators, production class A ⁵	722	3.83	-	-	-	-	-	-	-	-	-	28	-	-	-	1	17	13	10	32	102	203	98	106	30	12	30	40	
Time	689	3.83	-	-	-	-	-	-	-	-	-	27	-	-	-	-	17	13	10	32	102	201	93	94	19	11	30	40	
Automatic-lathe operators, class A (all timeworkers)	8	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	4	-	1	-	2	-	-	
Drill press operators, radial, class A (all timeworkers)	42	4.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	10	-	-	2	3	5	6	14	
Drill-press operators, single- or multiple-spindle, class A (all timeworkers)	29	3.41	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	4	2	16	-	-	-	-	-	-	-	-	
Engine-lathe operators, class A ⁴	143	3.57	-	-	-	-	-	-	-	-	24	-	-	-	-	6	2	2	6	16	57	20	1	3	2	2	2	-	
Grinding-machine operators, class A (all timeworkers)	72	3.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	1	5	11	25	8	9	1	-	5	3	
Milling-machine operators, class A (all timeworkers)	100	3.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	1	5	11	25	8	9	1	-	5	3	
Screw-machine operators, automatic, class A (all timeworkers)	21	4.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	1	2	-	1	1	12	-	-	
Turret-lathe operators, hand (including hand screw machine), class A	86	3.81	-	-	-	-	-	-	-	-	-	3	-	-	-	3	4	1	5	16	14	10	10	13	1	3	3	3	
Time	70	3.74	-	-	-	-	-	-	-	-	-	3	-	-	-	3	4	1	5	16	14	9	3	5	1	3	3	3	
Machine-tool operators, production, class B ⁵	533	3.34	-	6	6	6	-	6	6	12	13	19	-	13	7	15	38	67	47	42	37	95	85	4	4	5	-	-	
Time	425	3.26	-	6	6	6	-	6	6	12	13	19	-	13	7	14	38	63	43	38	19	35	68	4	4	5	-	-	
Drill-press operators, single- or multiple-spindle, class B ⁴	30	3.12	-	6	-	-	-	3	-	1	1	-	-	-	1	-	5	-	4	-	2	-	3	-	4	-	-	-	
Engine-lathe operators, class B	71	3.09	-	-	3	-	3	-	-	9	6	-	-	-	2	2	14	17	-	2	13	-	-	-	-	-	-	-	
Time	60	2.98	-	-	3	-	3	-	-	9	6	-	-	-	2	2	14	17	-	2	13	-	-	-	-	-	-	-	
Milling-machine operators, class B	60	3.49	-	-	-	-	-	-	-	-	-	-	-	-	3	1	15	5	7	10	9	8	-	1	1	-	-	-	
Time	52	3.45	-	-	-	-	-	-	-	-	-	-	-	-	3	1	15	5	7	9	5	5	-	1	1	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class B	47	2.99	-	-	3	3	-	3	-	6	-	3	-	4	-	-	-	4	4	4	4	5	3	-	1	-	-	-	
Time	37	2.82	-	-	3	3	-	3	-	6	-	3	-	4	-	-	-	4	3	4	1	1	1	-	1	-	-	-	
Machine-tool operators, production, class C ⁵	199	2.90	24	6	-	9	-	3	3	-	-	-	20	9	6	18	14	15	31	29	6	5	-	1	-	-	-	-	
Time	170	2.81	24	6	-	9	-	3	3	-	-	-	20	9	6	18	13	12	22	13	6	5	-	1	-	-	-	-	
Milling-machine operators, class C ⁴	18	3.47	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	8	2	-	5	-	1	-	-	-	-	

See footnotes at end of table.

Table 4. Occupational earnings: Baltimore, Md.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$1.70 and under	\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80 and over
			\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	over
Men—Continued																												
Machine-tool operators, toolroom (operate more than one type of machine).....	71	\$3.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Time.....	65	3.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	20	13	11	13	1	5	-
Machinists, maintenance (all timeworkers).....	60	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	31	20	4	-	-
Machinists, production (all timeworkers).....	218	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	8	-	90	7	12	41	43	1	14	
Mechanics, maintenance (all timeworkers).....	47	3.79	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3	1	2	1	11	7	7	9	1	4	-	-
Polishers and buffers, metal (all timeworkers).....	131	3.59	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	54	2	11	12	21	11	-	6	1	10	-
Punch-press operators, class A ⁴	48	3.44	-	-	-	2	2	1	2	-	-	1	2	2	1	1	3	-	-	3	7	20	-	-	-	-	-	1
Set-up men, machine tools ⁴	100	4.04	-	-	-	-	-	-	-	-	-	1	1	1	1	2	3	2	-	3	11	37	33	1	4	-	-	
Tool and diemakers (other than jobbing) (all timeworkers).....	99	4.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	14	10	6	10
Tool clerks (all timeworkers).....	26	3.01	-	-	-	-	-	-	-	-	-	1	7	3	8	-	-	1	1	-	2	3	-	-	-	-	-	
Welders, hand, class A (all timeworkers).....	88	3.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	5	36	18	1	2	9	10	-	
Welders, hand, class B.....	45	3.57	-	-	-	-	-	-	-	-	-	-	-	-	5	7	12	3	1	-	5	-	5	1	1	-	7	5
Time.....	42	3.52	-	-	-	-	-	-	-	-	-	-	-	-	5	7	12	3	1	-	5	-	5	-	4	-	-	
Women																												
Tool clerks (all timeworkers).....	6	3.08	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	-	-	-	-	-	-	-	-	-	-	-

¹ The Baltimore Standard Metropolitan Statistical Area consists of Baltimore City, Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties.
² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
³ Workers were distributed as follows: 29 at \$4.80 to \$5 and 14 at \$5 to \$5.20.
⁴ Insufficient data to warrant publication of separate averages by method of wage payment, predominantly timeworkers.
⁵ Includes data for operators of other machine tools in addition to those shown separately.
⁶ Workers were distributed as follows: 5 at \$4.80 to \$5 and 9 at \$5 to \$5.20.
⁷ All workers were at \$4.80 to \$5.

Table 5. Occupational earnings: Boston, Mass.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$2.20 and under \$2.30	\$2.30-\$2.40	\$2.40-\$2.50	\$2.50-\$2.60	\$2.60-\$2.70	\$2.70-\$2.80	\$2.80-\$2.90	\$2.90-\$3.00	\$3.00-\$3.10	\$3.10-\$3.20	\$3.20-\$3.30	\$3.30-\$3.40	\$3.40-\$3.50	\$3.50-\$3.60	\$3.60-\$3.80	\$3.80-\$4.00	\$4.00-\$4.20	\$4.20-\$4.40	\$4.40-\$4.60	\$4.60-\$4.80	\$4.80-\$5.00	\$5.00-\$5.20	\$5.20-\$5.40	\$5.40-\$5.60	\$5.60-\$5.80	\$5.80 and over
Men																												
Assemblers, class A	644	\$3.98	-	-	-	2	-	-	4	1	2	1	16	51	53	71	231	81	27	1	2	4	6	17	7	4	13	50
Time	500	3.63	-	-	-	2	-	-	4	1	2	1	16	51	47	61	219	78	17	-	1	-	-	-	-	-	-	-
Incentive	144	5.20	-	-	-	-	-	-	-	-	-	-	-	-	6	10	12	3	10	1	1	4	6	17	7	4	13	50
Assemblers, class B	420	3.34	-	-	1	-	5	8	4	21	84	32	52	34	101	44	10	2	4	2	6	-	1	4	1	-	-	
Time	386	3.27	-	-	1	-	5	8	4	21	84	30	39	34	101	43	10	2	3	-	1	-	-	-	-	-	-	
Incentive	34	4.16	-	-	-	-	-	-	-	-	-	2	13	-	-	-	-	1	-	1	2	5	-	1	4	1	-	
Assemblers, class C	166	2.96	-	13	7	4	22	18	6	3	33	1	-	54	4	-	-	1	-	-	-	-	-	-	-	-	-	
Time	164	2.95	-	13	7	4	22	18	6	3	33	1	-	53	4	-	-	-	-	-	-	-	-	-	-	-	-	
Carpenters, maintenance ⁴	21	3.82	-	-	-	-	-	-	-	-	2	-	-	-	-	-	5	8	6	-	-	-	-	-	-	-	-	
Electricians, maintenance	60	4.07	-	-	-	-	-	-	-	-	-	2	-	-	-	2	12	1	18	12	8	5	-	-	-	-	-	
Time	55	4.05	-	-	-	-	-	-	-	-	-	2	-	-	-	2	12	-	16	12	7	4	-	-	-	-	-	
Inspectors, class A	190	3.88	-	-	-	-	-	-	-	-	-	-	4	6	15	6	43	45	53	14	1	3	-	-	-	-	-	
Time	180	3.87	-	-	-	-	-	-	-	-	-	-	4	6	15	6	43	39	49	14	1	3	-	-	-	-	-	
Inspectors, class B	91	3.48	-	-	-	-	-	1	-	7	11	11	5	7	4	37	6	2	-	-	-	-	-	-	-	-	-	
Time	89	3.47	-	-	-	-	-	1	-	7	11	11	5	7	4	35	6	2	-	-	-	-	-	-	-	-	-	
Inspectors, class C ⁴	27	3.03	1	-	-	10	-	7	3	2	-	-	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	
Janitors, porters, and cleaners	185	2.83	1	5	1	10	42	39	26	11	7	35	4	2	-	1	-	1	-	-	-	-	-	-	-	-	-	
Time	175	2.80	1	5	1	10	42	39	26	11	6	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Incentive	104	3.08	2	-	-	2	6	8	10	-	21	-	43	4	4	4	-	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class A ⁵	1,482	4.04	-	-	-	-	-	7	6	7	11	16	15	86	76	256	362	268	85	85	50	32	37	30	18	18	17	
Time	1,136	3.85	-	-	-	-	-	4	4	5	9	16	13	82	72	247	340	225	36	53	14	16	16	-	-	-	-	
Incentive	346	4.68	-	-	-	-	-	3	2	2	2	2	4	4	9	22	43	49	32	36	16	37	30	18	18	17		
Automatic-lathe operators, class A	31	4.40	-	-	-	-	-	-	-	-	-	-	-	-	1	9	-	3	-	-	-	8	8	1	-	-	1	
Time	29	4.31	-	-	-	-	-	-	-	-	-	-	-	-	1	9	-	3	-	-	-	8	8	-	-	-	-	
Drill-press operators, radial, class A	75	4.39	-	-	-	-	-	-	-	1	5	-	-	-	1	7	21	12	-	10	1	-	4	4	1	2	6	
Time	30	3.69	-	-	-	-	-	-	-	-	5	-	-	-	1	7	17	-	-	-	-	-	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class A	71	3.98	-	-	-	-	-	4	1	-	-	2	2	17	6	10	4	2	4	1	4	3	3	3	3	1	1	
Time	36	3.41	-	-	-	-	-	4	-	-	-	2	2	16	4	8	-	-	-	-	-	-	-	-	-	-	-	
Engine-lathe operators, class A	152	4.01	-	-	-	-	-	1	-	-	1	-	-	-	10	34	41	39	14	2	-	1	1	-	-	-	-	
Time	126	3.88	-	-	-	-	-	-	-	-	-	-	-	-	10	34	38	38	4	1	-	1	-	-	-	-	-	
Incentive	26	4.61	-	-	-	-	-	1	-	-	1	-	-	-	-	-	3	1	10	1	-	-	1	-	2	6	-	
Grinding-machine operators, class A	198	4.02	-	-	-	-	-	-	-	1	-	3	8	12	15	53	35	28	9	1	9	2	5	9	3	2	3	
Time	160	3.79	-	-	-	-	-	-	-	1	-	3	7	10	15	53	34	23	9	1	4	-	-	-	-	-	-	
Incentive	38	4.99	-	-	-	-	-	-	-	-	-	-	1	2	-	-	1	5	-	5	2	5	9	3	2	3	-	
Milling-machine operators, class A	206	3.96	-	-	-	-	-	2	1	-	1	-	1	3	16	45	59	36	16	12	2	2	6	3	1	-	-	
Time	152	3.85	-	-	-	-	-	-	-	-	-	-	-	3	16	41	52	29	9	2	-	-	-	-	-	-	-	
Incentive	54	4.28	-	-	-	-	-	2	1	-	1	-	1	-	-	4	7	7	10	2	2	6	3	1	-	-	-	
Screw-machine operators, automatic, class A	50	4.10	-	-	-	-	-	-	-	-	-	-	-	1	-	17	9	14	-	-	2	2	1	-	2	2	-	
Time	41	3.86	-	-	-	-	-	-	-	-	-	-	-	-	1	17	9	14	-	-	2	2	1	-	2	2	-	
Turret-lathe operators, hand (including hand screw machine), class A	244	4.03	-	-	-	-	-	-	-	-	-	-	-	26	19	27	78	19	26	3	20	2	6	6	2	5	-	
Time	156	3.72	-	-	-	-	-	-	-	4	-	-	-	26	18	26	76	6	-	-	-	-	-	-	-	-	-	
Incentive	88	4.57	-	-	-	-	-	-	-	1	-	-	-	-	1	1	2	13	26	3	20	2	6	6	2	5	-	
Machine-tool operators, production, class B ⁵	696	3.41	-	-	4	2	2	17	11	17	40	81	87	58	96	103	134	17	7	4	4	-	5	3	2	-	1	
Time	655	3.37	-	-	4	2	17	7	14	40	81	86	58	96	101	130	13	2	4	-	4	-	-	-	-	-	-	
Incentive	41	4.06	-	-	-	2	-	4	3	-	-	-	1	-	-	2	4	5	4	-	-	5	3	2	-	1	1	
Drill-press operators, radial, class B	44	3.43	-	-	-	-	-	-	-	11	10	-	7	-	-	12	-	-	4	-	-	-	-	-	-	-	-	
Time	36	3.29	-	-	-	-	-	-	-	11	10	-	7	-	-	8	-	-	-	-	-	-	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class B	29	3.24	-	-	-	2	-	4	1	2	6	3	5	3	-	-	-	-	-	-	-	1	1	1	-	-	-	
Time	24	3.03	-	-	-	2	-	4	-	1	6	3	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
Incentive	96	3.38	-	-	-	-	-	-	-	-	1	6	35	16	1	22	15	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 5. Occupational earnings: Boston, Mass.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$2.20 and under	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80 and over
			\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80
Men—Continued																												
Machine-tool operators, production, class B ³ —Continued																												
Grinding-machine operators, class B	78	\$3.39	-	-	4	-	-	4	-	1	-	7	14	-	9	16	19	4	-	-	-	-	-	-	-	-	-	-
Time	77	3.39	-	-	4	-	-	4	-	1	-	7	14	-	9	15	19	4	-	-	-	-	-	-	-	-	-	-
Milling-machine operators, class B	72	3.46	-	-	-	-	2	4	3	8	1	5	11	6	2	1	20	4	-	-	-	-	-	4	-	1	-	-
Time	58	3.36	-	-	-	-	-	4	1	7	1	5	11	6	2	1	20	-	-	-	-	-	-	-	-	-	-	-
Screw-machine operators, automatic, class B	18	3.36	-	-	-	-	-	-	-	-	-	6	2	-	1	9	-	-	-	-	-	-	-	-	-	-	-	-
Time	17	3.37	-	-	-	-	-	-	-	-	-	6	1	-	1	9	-	-	-	-	-	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine) class B	75	3.59	-	-	-	-	-	-	5	1	-	-	2	3	18	5	34	-	5	-	-	-	-	-	-	-	1	1
Time	66	3.50	-	-	-	-	-	-	4	-	-	-	2	3	18	5	34	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class C ³	290	3.03	-	10	10	30	25	39	30	5	22	31	6	33	-	-	5	44	-	-	-	-	-	-	-	-	-	-
Time	286	3.03	-	10	10	30	25	39	30	5	21	30	5	33	-	-	4	44	-	-	-	-	-	-	-	-	-	-
Engine-lathe operators, class C	15	3.07	-	-	-	-	-	-	6	-	-	3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	14	3.06	-	-	-	-	-	-	6	-	-	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class C	21	2.70	-	6	-	-	-	4	9	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	20	2.68	-	6	-	-	-	4	9	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Milling-machine operators, class C	13	2.94	-	-	-	2	-	-	2	1	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	12	2.93	-	-	-	2	-	-	2	1	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, toolroom (operate one type of machine) ⁴	46	4.01	-	-	-	-	-	-	-	-	-	-	-	2	4	-	4	3	21	10	-	2	-	-	-	-	-	-
Machine-tool operators, toolroom (operate more than one type of machine) ⁴	52	3.70	-	-	-	-	-	-	-	4	-	-	-	-	18	6	9	-	6	5	-	6	4	-	-	-	-	-
Machinists, maintenance	28	4.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	1	-	6	4	4	-	-	-	-
Time	20	4.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	-	-	6	1	-	-	-	-	-
Machinists, production ⁵	382	4.08	-	-	-	-	-	-	-	4	-	4	6	6	22	49	35	102	135	2	6	1	2	2	1	-	-	5
Mechanics, maintenance	41	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	5	10	-	14	6	2	4	-	-	-	-	-	-
Time	35	3.91	-	-	-	-	-	-	-	-	-	-	-	-	5	10	-	14	6	-	-	-	-	-	-	-	-	-
Polishers and buffers, metal ⁶	111	3.41	-	-	-	-	-	-	-	6	1	-	24	72	-	8	-	-	-	-	-	-	-	-	-	-	-	-
Polishing- and buffing-machine operators ⁶	19	3.89	-	-	-	-	-	-	-	5	-	-	6	-	-	-	-	-	-	4	-	-	4	-	-	-	-	-
Punch-press operators, class A ⁴	99	3.38	-	-	-	-	-	-	-	-	20	26	-	5	44	2	2	-	-	-	-	-	-	-	-	-	-	-
Punch-press operators, class B	169	2.90	8	-	2	6	30	33	48	27	2	2	-	2	1	6	-	1	1	-	-	-	-	-	-	-	-	-
Time	166	2.88	8	-	2	6	30	33	48	27	2	2	-	2	-	6	-	1	-	-	-	-	-	-	-	-	-	-
Set-up men, machine tools ⁴	39	3.87	-	-	-	-	-	-	-	-	-	-	-	-	3	-	21	8	6	-	-	1	-	-	-	-	-	-
Tool and diemakers (jobbing) ⁴	89	4.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	11	52	23	-	-	-	-	-	-	-
Tool and diemakers (other than jobbing) ⁴	132	4.33	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	31	35	20	32	-	1	-	-	-	-	-
Tool clerks	79	3.45	-	-	1	1	4	2	3	15	1	3	7	-	39	3	-	-	-	-	-	-	-	-	-	-	-	-
Time	77	3.46	-	-	1	1	4	2	1	15	1	3	7	-	39	3	-	-	-	-	-	-	-	-	-	-	-	-
Welders, hand, class A	214	3.70	-	-	-	-	-	-	-	-	-	-	-	13	58	93	39	7	2	2	-	-	-	-	-	-	-	-
Time	210	3.69	-	-	-	-	-	-	-	-	-	-	-	13	58	93	37	7	-	2	-	-	-	-	-	-	-	-
Welders, hand, class B ⁴	96	3.42	-	-	-	-	-	-	-	5	30	11	6	35	9	-	-	-	-	-	-	-	-	-	-	-	-	-
Welders, machine, class A ⁴	16	3.39	-	-	-	-	-	-	2	1	-	2	10	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Women																												
Assemblers, class B ⁶	39	2.82	-	-	-	4	7	8	1	17	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class B ⁴	26	3.38	-	-	-	-	1	2	-	-	-	-	15	-	1	1	5	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class C ⁴	50	2.93	-	1	2	1	4	2	16	2	10	11	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class B ⁶	14	2.70	-	-	-	8	1	-	1	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ The Boston Standard Metropolitan Statistical Area consists of Suffolk County, 15 communities in Essex County, 30 in Middlesex County, 20 in Norfolk County, and 9 in Plymouth County.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

³ Workers were distributed as follows: 18 at \$5.80 to \$6; 8 at \$6 to \$6.20; 8 at \$6.20 to \$6.40; 2 at \$6.40 to \$6.60; 1 at \$6.60 to \$6.80; 10 at \$6.80 to \$7; and 3 at \$7 and over.

⁴ All workers were paid on a time basis.

⁵ Includes data for operators of other machine tools in addition to those shown separately.

⁶ Insufficient data to warrant publication of separate averages by method of wage payment, predominantly timeworkers.

Table 6. Occupational earnings: Buffalo, N.Y.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																								
			\$2.20 and under \$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60
			and under \$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60
Men																											
Assemblers, class A.....	321	\$4.01	-	-	-	-	-	-	-	-	-	-	16	5	34	7	66	32	20	108	26	4	-	1	1	1	-
Time.....	191	3.78	-	-	-	-	-	-	-	-	-	-	16	5	34	3	66	30	12	23	2	-	-	-	-	-	-
Assemblers, class B.....	278	3.65	-	-	-	-	-	-	2	16	10	12	12	12	44	70	37	27	18	6	8	2	1	1	-	-	-
Time.....	144	3.58	-	-	-	-	-	-	1	9	-	7	2	6	36	50	20	9	4	-	-	-	-	-	-	-	-
Assemblers, class C.....	98	3.51	-	-	-	-	-	6	-	2	2	9	34	-	20	-	-	20	4	-	-	1	-	-	-	-	
Time.....	97	3.50	-	-	-	-	-	6	-	2	2	9	34	-	20	-	-	20	4	-	-	-	-	-	-	-	
Electricians, maintenance (all timeworkers).....	69	4.05	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	33	3	18	5	-	-	-	-	-	
Inspectors, class A (all timeworkers).....	107	4.05	-	-	-	-	-	-	-	-	-	-	2	-	13	-	12	2	47	28	1	2	-	-	-	-	
Inspectors, class B (all timeworkers).....	47	3.65	-	-	-	-	-	-	-	6	-	-	2	4	2	9	7	17	-	-	-	-	-	-	-	-	
Inspectors, class C (all timeworkers).....	27	3.21	-	-	-	-	-	-	-	2	13	2	9	-	1	-	-	-	-	-	-	-	-	-	-	-	
Janitors, porters, and cleaners (all timeworkers).....	163	2.84	13	18	-	4	-	2	52	27	20	4	15	2	-	-	6	-	-	-	-	-	-	-	-	-	
Laborers, material handling (all timeworkers).....	73	3.12	-	-	-	-	2	7	2	24	20	16	-	-	-	2	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class A ⁴	1,102	3.84	-	-	-	-	-	-	-	6	10	18	26	43	214	132	74	276	135	106	19	34	9	-	-	-	
Time.....	686	3.83	-	-	-	-	-	-	-	-	4	2	6	14	180	100	29	175	75	69	2	28	2	-	-	-	
Automatic-lathe operators, class A ^{5a/}	56	3.91	-	-	-	-	-	-	-	-	-	-	2	4	-	4	8	14	15	9	-	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class A.....	51	3.66	-	-	-	-	-	-	-	-	6	2	4	10	-	4	2	18	-	5	-	-	-	-	-	-	
Time.....	39	3.73	-	-	-	-	-	-	-	4	-	2	8	-	4	-	16	-	5	-	-	-	-	-	-	-	
Engine-lathe operators, class A.....	151	3.75	-	-	-	-	-	-	-	-	-	2	6	4	58	7	17	28	24	4	1	-	-	-	-	-	
Time.....	101	3.69	-	-	-	-	-	-	-	-	-	2	2	-	58	-	11	16	12	-	-	-	-	-	-	-	
Grinding-machine operators, class A.....	124	3.90	-	-	-	-	-	-	-	-	-	-	-	-	34	10	8	6	24	42	-	-	-	-	-	-	
Time.....	95	3.89	-	-	-	-	-	-	-	-	-	-	-	-	32	8	-	18	37	-	-	-	-	-	-	-	
Milling-machine operators, class A.....	112	3.88	-	-	-	-	-	-	-	-	-	2	-	10	35	5	-	20	19	5	3	9	4	-	-	-	
Time.....	52	3.83	-	-	-	-	-	-	-	-	-	-	-	2	29	1	-	2	8	2	-	6	2	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class A.....	258	3.78	-	-	-	-	-	-	-	6	4	6	8	8	38	16	19	117	23	13	-	-	-	-	-	-	
Time.....	127	3.88	-	-	-	-	-	-	-	-	-	-	-	-	16	6	-	84	12	9	-	-	-	-	-	-	
Machine-tool operators, production, class B ⁴	335	3.67	-	-	-	-	1	-	4	51	-	22	4	20	2	43	74	67	29	12	3	3	-	-	-	-	
Time.....	288	3.60	-	-	-	-	1	-	4	51	-	20	4	19	-	42	73	63	15	12	3	3	-	-	-	-	
Incentive.....	47	4.05	-	-	-	-	-	-	-	-	-	-	2	4	1	2	1	4	14	12	3	3	-	-	-	-	
Automatic-lathe operators, class B ^{5a/}	8	3.59	-	-	-	-	1	-	2	-	-	-	-	-	-	-	3	1	1	-	-	-	-	-	-	-	
Drill-press operators, radial, class B.....	33	3.52	-	-	-	-	-	-	-	-	-	9	-	16	-	4	-	-	3	1	-	-	-	-	-	-	
Time.....	29	3.44	-	-	-	-	-	-	-	-	-	9	-	16	-	4	-	-	-	-	-	-	-	-	-	-	
Grinding-machine operators, class B.....	94	3.59	-	-	-	-	-	-	-	30	-	2	4	-	-	4	9	40	1	4	-	-	-	-	-	-	
Time.....	82	3.57	-	-	-	-	-	-	-	30	-	-	-	-	-	4	9	39	-	-	-	-	-	-	-	-	
Incentive.....	12	3.74	-	-	-	-	-	-	-	-	-	2	4	-	-	-	-	1	1	4	-	-	-	-	-	-	
Milling-machine operators, class B.....	34	3.81	-	-	-	-	-	-	-	6	-	2	-	-	-	3	-	9	11	2	-	1	-	-	-	-	
Time.....	25	3.70	-	-	-	-	-	-	-	6	-	2	-	-	-	2	-	6	9	-	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class B.....	29	3.86	-	-	-	-	-	-	-	-	-	-	-	1	2	12	-	3	9	1	1	-	-	-	-	-	
Incentive.....	8	3.99	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	3	1	1	-	-	-	-	-	

See footnotes at end of table.

Table 6. Occupational earnings: Buffalo, N.Y.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			\$2.20 and under	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60 and over	
			\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	over	
Men—Continued																													
Machine-tool operators, production, class C ⁴	88	\$3.50	-	-	1	-	12	-	-	-	10	10	6	-	10	3	6	15	6	8	-	-	-	-	-	-	-	-	-
Time	63	3.28	-	-	1	-	12	-	-	-	10	10	6	-	10	3	3	7	-	-	-	-	-	-	-	-	-	-	
Drill-press operators, radial, class C (all timeworkers)	7	3.22	-	-	1	-	1	-	-	-	-	-	4	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class C	35	3.05	-	-	-	-	12	-	-	-	10	10	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
Time	34	3.02	-	-	-	-	12	-	-	-	10	10	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, toolroom (operate one type of machine) (all timeworkers)	84	4.25	-	-	-	-	-	-	-	-	-	-	1	5	5	2	-	-	-	31	40	-	-	-	-	-	-	-	-
Machine-tool operators, toolroom (operate more than one type of machine) (all timeworkers)	118	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	17	45	18	28	10	-	-	-	-	-	-	-	-	
Machinists, maintenance (all timeworkers)	42	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	4	14	4	-	-	-	-	-	-	-	-	
Machinists, production (all timeworkers)	220	4.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	106	15	4	-	-	-	44	-	-	-	
Mechanics, maintenance (all timeworkers)	64	4.13	-	-	-	-	-	-	-	-	-	-	-	-	8	14	6	3	19	10	2	-	-	-	2	-	-	-	
Punch-press operators, class B ⁵ b/	37	3.54	-	-	-	4	-	-	3	2	-	2	2	2	1	11	2	2	4	-	-	-	-	-	-	-	-	-	
Tool and diemakers (jobbing) (all timeworkers)	278	4.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	56	85	20	67	46	-	-	-	-	-	
Tool and diemakers (other than jobbing) (all timeworkers)	60	4.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	21	6	7	15	-	-	-	-	-	-	-	
Tool clerks (all timeworkers)	35	3.37	-	-	-	-	-	3	1	-	6	-	8	5	4	-	-	2	-	-	-	-	-	-	-	-	-	-	
Welders, hand, class A	203	4.40	-	-	-	-	-	-	-	-	-	-	8	21	-	12	13	40	43	7	8	2	7	15	7	20	-	-	
Time	109	4.04	-	-	-	-	-	-	-	-	-	-	8	21	-	10	11	29	14	2	2	-	-	10	2	-	-	-	
Welders, hand, class B (all timeworkers)	59	3.59	-	-	-	-	-	-	-	-	17	-	2	4	4	24	6	2	-	-	-	-	-	-	-	-	-	-	
Women																													
Janitors, porters, and cleaners (all timeworkers)	26	3.03	1	-	-	2	-	4	8	1	-	8	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ The Buffalo Standard Metropolitan Statistical Area consists of Erie and Niagara Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

³ Includes 2 workers at \$2.10 to \$2.20.

⁴ Includes data for operators of other machine tools in addition to those shown separately.

⁵ Insufficient data to warrant publication of separate averages by method of wage payment; (a) predominantly timeworkers, or (b) predominantly incentive workers.

Table 7. Occupational earnings: Chicago, Ill.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1971)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																							and over	
			Under \$2.20	\$2.20-\$2.30	\$2.30-\$2.40	\$2.40-\$2.50	\$2.50-\$2.60	\$2.60-\$2.70	\$2.70-\$2.80	\$2.80-\$2.90	\$2.90-\$3.00	\$3.00-\$3.20	\$3.20-\$3.40	\$3.40-\$3.60	\$3.60-\$3.80	\$3.80-\$4.00	\$4.00-\$4.20	\$4.20-\$4.40	\$4.40-\$4.60	\$4.60-\$4.80	\$4.80-\$5.00	\$5.00-\$5.20	\$5.20-\$5.40	\$5.40-\$5.60	\$5.60-\$5.80		\$5.80-\$6.00
Men																											
Assemblers, class A	3,857	\$4.29	-	-	-	-	1	-	1	2	49	45	450	350	161	454	563	248	1018	212	241	10	7	3	9	11	22
Time	3,550	4.25	-	-	-	-	1	-	1	2	41	12	413	324	156	440	544	208	794	178	231	3	2	-	-	-	
Incentive	507	4.58	-	-	-	-	-	-	-	-	8	33	37	26	5	14	19	40	224	34	10	7	5	3	9	11	22
Assemblers, class B	1,897	3.83	-	-	33	17	-	70	6	21	69	151	275	417	257	109	186	53	42	58	88	27	2	-	15	-	1
Time	1,448	3.68	-	-	-	9	-	62	6	11	57	140	253	389	210	92	164	37	9	-	-	-	-	-	-	-	
Incentive	449	4.33	-	-	-	24	8	-	8	-	10	12	11	22	28	47	17	22	16	33	58	88	27	2	-	15	-
Assemblers, class C	639	3.30	-	1	1	62	43	45	25	7	23	87	56	155	63	5	14	4	17	6	7	3	-	-	-	15	-
Time	561	3.15	-	1	1	62	40	45	22	6	16	86	50	152	62	5	11	2	-	-	-	-	-	-	-	-	-
Incentive	78	4.41	-	-	-	3	-	-	3	1	7	1	6	3	1	-	3	2	17	6	7	3	-	-	-	15	-
Carpenters, maintenance (all timeworkers)	71	4.34	-	-	-	-	-	-	-	-	-	-	-	2	17	2	3	25	2	6	4	-	3	7	-	-	-
Electricians, maintenance	400	4.83	-	-	-	-	-	-	-	-	-	-	-	2	11	6	33	45	29	63	59	45	30	71	-	-	6
Time	396	4.83	-	-	-	-	-	-	-	-	-	-	-	2	11	6	33	45	29	63	55	45	30	71	-	-	6
Incentive	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class A	969	4.29	-	-	-	-	-	-	-	-	8	4	80	63	78	149	64	284	193	35	5	6	-	-	-	-	-
Time	927	4.29	-	-	-	-	-	-	-	-	8	4	80	63	78	143	44	268	193	35	5	6	-	-	-	-	-
Incentive	42	4.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class B	638	3.91	-	-	-	-	-	-	-	15	40	100	103	81	98	199	2	-	-	-	-	-	-	-	-	-	-
Time	638	3.91	-	-	-	-	-	-	-	15	40	100	103	81	98	199	2	-	-	-	-	-	-	-	-	-	-
Incentive	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class C	260	3.64	-	15	-	-	-	1	10	9	-	22	52	29	43	1	2	41	6	2	12	7	8	-	-	-	-
Time	218	3.43	-	15	-	-	-	1	10	9	-	22	51	27	41	-	1	41	-	-	-	-	-	-	-	-	-
Incentive	42	4.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners	1,052	3.09	2	38	60	6	38	71	30	103	87	199	131	102	91	36	55	3	-	-	-	-	-	-	-	-	-
Time	1,008	3.09	2	38	60	6	38	71	30	103	87	167	131	96	85	36	55	3	-	-	-	-	-	-	-	-	-
Incentive	44	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laborers, material handling	1,929	3.28	3	8	41	9	13	55	138	233	150	368	209	195	85	76	316	28	-	-	2	-	-	-	-	-	-
Time	1,861	3.28	3	8	41	9	13	55	138	233	141	362	164	188	84	76	316	28	-	-	2	-	-	-	-	-	-
Incentive	68	3.25	-	-	-	-	-	-	-	-	9	6	45	7	1	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class A³																											
Automatic-lathe operators, class A	435	4.40	-	-	-	-	-	-	-	-	-	1	3	52	22	118	21	36	89	36	32	22	3	-	-	-	-
Time	320	4.25	-	-	-	-	-	-	-	-	-	1	3	49	13	109	19	32	79	15	-	-	-	-	-	-	-
Incentive	115	4.83	-	-	-	-	-	-	-	-	-	-	-	3	9	9	2	4	10	21	32	22	3	-	-	-	-
Drill-press operators, radial, class A	681	4.41	-	-	-	-	-	-	-	1	8	44	20	47	85	177	83	120	27	43	6	1	2	4	4	9	9
Time	492	4.28	-	-	-	-	-	-	-	-	1	4	14	25	72	158	71	103	1	-	-	-	-	-	-	-	-
Incentive	189	4.74	-	-	-	-	-	-	-	1	4	-	6	22	13	19	12	17	26	43	6	1	2	4	4	9	9
Drill-press operators, single- or multiple-spindle, class A	364	4.01	-	-	-	-	-	1	1	6	20	4	37	99	35	25	47	48	5	7	24	3	-	2	-	-	-
Time	255	3.76	-	-	-	-	-	1	1	6	20	4	37	94	26	17	42	7	-	-	-	-	-	-	-	-	-
Incentive	109	4.59	-	-	-	-	-	-	-	-	-	-	-	5	9	8	5	41	5	7	24	3	-	2	-	-	-
Engine-lathe operators, class A	869	4.47	-	-	-	-	-	-	-	-	4	2	76	10	40	195	186	247	9	87	7	3	-	-	2	1	-
Time	771	4.47	-	-	-	-	-	-	-	-	4	-	61	3	29	185	167	240	-	82	-	-	-	-	-	-	-
Incentive	98	4.45	-	-	-	-	-	-	-	-	-	-	2	15	7	11	10	19	7	9	5	7	3	-	2	1	-
Grinding-machine operators, class A	1,393	4.37	-	-	-	-	-	-	-	2	7	57	112	148	176	213	331	99	80	69	53	12	11	10	4	-	-
Time	1,050	4.31	-	-	-	-	-	-	-	2	5	56	107	118	96	185	308	80	5	27	25	5	11	8	3	9	9
Incentive	343	4.58	-	-	-	-	-	-	-	-	2	1	5	30	80	28	23	19	75	42	28	7	-	2	1	-	-
Milling-machine operators, class A	916	4.38	-	-	-	-	-	-	-	1	21	89	30	52	107	135	107	243	18	92	20	1	-	-	-	-	-
Time	739	4.34	-	-	-	-	-	-	-	1	21	87	20	41	82	106	89	227	5	51	9	-	-	-	-	-	-
Incentive	177	4.57	-	-	-	-	-	-	-	-	-	-	2	10	11	25	29	18	16	13	41	11	1	-	-	-	-
Screw-machine operators, automatic, class A	388	4.68	-	-	-	-	-	-	-	-	-	-	-	1	30	58	52	37	62	2	45	96	5	-	-	-	-
Time	260	4.46	-	-	-	-	-	-	-	-	-	-	-	1	28	50	48	30	60	2	41	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class A	827	4.30	-	-	-	-	-	-	-	1	2	1	60	113	43	78	93	152	235	20	15	10	4	-	-	-	-
Time	606	4.21	-	-	-	-	-	-	-	1	1	-	53	106	26	62	73	133	151	-	-	-	-	-	-	-	-
Incentive	221	4.55	-	-	-	-	-	-	-	-	1	1	-	7	17	16	20	19	84	20	15	10	4	-	-	-	-

See footnotes at end of table.

Table 7. Occupational earnings: Chicago, Ill.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1971)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			Under \$2.20	\$2.20 and under \$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00	\$6.20	
			and over																									
Men—Continued																												
Machine-tool operators, production, class B ³	3,667	\$3.94	-	-	1	1	28	36	16	30	86	159	370	519	563	383	390	446	179	148	176	92	22	3	4	6	2	7
Time	2,555	3.81	-	-	1	1	20	36	16	30	86	152	341	467	376	178	288	337	88	38	73	12	8	2	1	3	1	-
Incentive	1,112	4.23	-	-	-	-	8	-	-	-	-	7	29	52	187	205	102	109	91	110	103	80	14	1	3	3	1	7
Automatic-lathe operators, class B	149	3.46	-	-	-	8	-	-	-	15	8	49	39	2	8	3	8	4	-	2	2	-	-	-	-	1	-	-
Time	130	3.33	-	-	-	8	-	-	-	15	8	49	37	1	4	2	6	-	-	-	-	-	-	-	-	-	-	-
Incentive	19	4.35	-	-	-	-	-	-	-	-	-	-	-	2	1	4	1	2	4	-	2	2	-	-	-	1	-	-
Drill-press operators, radial, class B	284	4.02	-	-	-	-	-	-	-	1	11	18	15	41	14	51	124	1	3	3	2	-	-	-	-	-	-	-
Time	257	4.00	-	-	-	-	-	-	-	1	11	18	14	32	12	49	120	-	-	-	-	-	-	-	-	-	-	-
Incentive	27	4.22	-	-	-	-	-	-	-	-	-	-	-	1	9	2	2	4	1	3	3	2	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class B	545	3.75	-	-	1	1	23	23	10	14	43	32	66	32	61	17	38	71	33	27	24	24	2	-	-	-	-	3
Time	324	3.55	-	-	1	1	15	23	10	14	43	32	59	25	41	3	9	37	9	-	2	-	-	-	-	-	-	-
Incentive	221	4.33	-	-	-	-	8	-	-	-	-	-	7	20	14	29	34	24	27	22	24	2	-	-	-	-	-	3
Engine-lathe operators, class B	240	3.67	-	-	-	-	-	-	-	-	-	33	47	49	31	28	21	18	5	3	4	-	1	-	-	-	-	-
Time	203	3.63	-	-	-	-	-	-	-	-	-	33	39	47	30	19	9	16	5	-	4	-	1	-	-	-	-	-
Incentive	37	3.87	-	-	-	-	-	-	-	-	-	-	8	2	1	9	12	2	-	3	-	-	-	-	-	-	-	-
Grinding-machine operators, class B	541	4.37	-	-	-	-	-	-	-	3	11	68	39	84	40	103	86	24	17	42	13	4	1	2	3	1	-	-
Time	446	4.37	-	-	-	-	-	-	-	3	11	64	38	78	21	95	74	15	4	24	10	3	1	1	3	1	-	-
Incentive	95	4.36	-	-	-	-	-	-	-	-	-	-	4	1	6	19	8	12	9	13	18	3	1	-	1	-	-	-
Milling-machine operators, class B	483	3.92	-	-	-	-	-	-	-	10	9	17	26	115	68	43	68	28	27	29	23	16	1	1	-	-	1	1
Time	287	3.76	-	-	-	-	-	-	-	10	9	13	24	88	23	25	54	14	9	8	8	1	-	1	-	-	-	-
Incentive	196	4.16	-	-	-	-	-	-	-	-	4	2	27	45	18	14	14	18	21	15	15	1	-	-	-	-	1	1
Screw-machine operators, automatic, class B	54	4.03	-	-	-	-	-	-	-	-	10	-	4	3	7	9	5	7	6	2	1	-	-	-	-	-	-	-
Time	40	3.93	-	-	-	-	-	-	-	-	9	-	4	2	6	3	6	4	-	-	-	-	-	-	-	-	-	-
Incentive	14	4.33	-	-	-	-	-	-	-	-	1	-	-	1	1	3	2	1	2	2	1	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class B	409	3.87	-	-	-	5	5	6	3	14	4	25	18	58	145	39	38	11	15	10	4	6	-	-	-	-	3	-
Time	168	3.53	-	-	-	5	5	6	3	14	4	20	13	48	15	20	15	-	-	-	-	-	-	-	-	-	-	-
Incentive	241	4.12	-	-	-	-	-	-	-	-	-	5	5	10	130	19	23	11	15	10	4	6	-	-	-	-	-	3
Machine-tool operators, production, class C ³	1,602	3.37	5	48	3	12	91	64	32	47	33	92	235	508	145	163	34	60	11	9	5	2	2	-	-	1	-	-
Time	1,369	3.30	5	48	3	12	91	64	32	46	21	85	221	450	77	137	22	54	1	-	-	-	-	-	-	-	-	-
Incentive	233	3.75	-	-	-	-	-	-	-	1	12	7	14	58	68	26	12	6	10	9	5	2	2	-	-	1	-	-
Drill-press operators, radial, class C	28	3.10	-	-	-	8	-	-	-	-	3	12	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Time	27	3.07	-	-	-	8	-	-	-	-	3	12	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class C	288	3.21	-	6	3	4	48	16	21	17	6	7	51	58	9	9	15	4	7	5	1	-	-	-	-	1	-	-
Time	201	2.96	-	6	3	4	48	16	21	17	3	3	48	17	-	2	11	2	-	-	-	-	-	-	-	-	-	-
Incentive	87	3.77	-	-	-	-	-	-	-	-	3	4	3	41	9	7	4	2	7	5	1	-	-	-	-	-	1	-
Engine-lathe operators, class C	23	3.78	-	-	-	-	-	-	-	1	-	-	-	7	6	5	-	1	-	2	1	-	-	-	-	-	-	-
Time	18	3.58	-	-	-	-	-	-	-	1	-	-	-	7	6	4	-	-	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class C	348	3.26	-	42	-	1	10	1	12	7	32	100	92	10	12	3	17	2	1	3	1	2	-	-	-	-	-	-
Time	309	3.18	-	42	-	1	10	1	11	7	29	96	87	1	7	2	15	-	-	-	-	-	-	-	-	-	-	-
Incentive	39	3.93	-	-	-	-	-	-	-	1	-	3	4	5	9	5	1	2	2	1	3	1	2	-	-	-	-	-
Milling-machine operators, class C	141	3.16	5	-	-	8	26	9	-	3	9	-	19	14	43	1	2	1	1	-	-	-	-	-	-	-	-	-
Time	116	3.05	5	-	-	8	26	9	-	3	9	-	19	14	21	-	-	1	1	-	-	-	-	-	-	-	-	-
Screw-machine operators, class C	30	3.49	-	-	-	-	-	-	-	2	1	5	2	7	6	6	1	-	-	-	-	-	-	-	-	-	-	-
Time	27	3.47	-	-	-	-	-	-	-	2	-	5	2	7	6	5	-	-	-	-	-	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class C	110	3.23	-	-	-	-	10	7	3	8	14	29	24	6	6	3	-	-	-	-	-	-	-	-	-	-	-	-
Time	88	3.18	-	-	-	-	10	7	3	8	14	26	24	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Incentive	22	3.46	-	-	-	-	-	-	-	8	-	3	3	2	2	6	3	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 7. Occupational earnings: Chicago, Ill.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1971)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																																		
			Under \$2.20	\$2.20 and under \$2.30	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00	\$6.20	and over								
Men—Continued																																					
Machine-tool operators, toolroom (operate one type of machine) (all timeworkers)	876	\$5.14	-	-	-	-	-	-	-	-	-	2	-	31	27	36	48	48	78	90	74	101	104	48	84	74	31	-	-	-	-	-	-				
Machine-tool operators, toolroom (operate more than one type of machine)	1,250	4.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Time	1,242	4.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Machinists, maintenance (all timeworkers)	232	4.58	-	-	-	-	-	-	-	-	-	-	-	-	9	4	15	50	35	90	3	9	1	3	12	1	-	-	-	-	-	-	-	-			
Machinists, production	127	4.54	-	-	-	-	-	-	-	-	-	-	-	-	-	6	4	37	10	58	1	2	6	2	1	-	-	-	-	-	-	-	-	-			
Time	117	4.52	-	-	-	-	-	-	-	-	-	-	-	-	-	6	4	36	6	57	-	2	5	1	-	-	-	-	-	-	-	-	-	-	-		
Mechanics, maintenance	383	4.53	-	-	-	-	-	-	-	-	-	-	-	23	13	16	50	47	73	38	47	6	34	36	-	-	-	-	-	-	-	-	-	-	-		
Time	327	4.52	-	-	-	-	-	-	-	-	-	-	-	23	13	16	50	47	73	38	47	6	34	36	-	-	-	-	-	-	-	-	-	-	-		
Polishers and buffers, metal	269	4.69	-	-	-	-	-	-	-	-	-	-	-	1	21	13	2	8	11	6	28	7	13	147	11	-	-	-	-	-	-	-	-	1	-		
Time	173	4.55	-	-	-	-	-	-	-	-	-	-	-	1	21	13	-	8	10	3	23	1	2	84	6	-	-	-	-	-	-	-	-	-	-		
Polishing- and buffing-machine operators	198	3.09	-	8	8	16	16	-	19	10	-	53	22	21	6	-	13	1	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-		
Time	184	3.03	-	8	8	16	16	-	19	10	-	53	20	13	6	-	13	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Incentive	14	3.88	-	-	-	-	-	-	-	-	-	-	2	8	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-		
Punch-press operators, class A	503	3.93	-	-	-	-	-	-	-	-	-	46	6	220	28	20	28	35	22	7	6	67	3	-	-	-	-	-	-	-	-	-	-	-	15	-	
Time	440	3.81	-	-	-	-	-	-	-	-	-	46	6	214	28	15	8	33	19	7	-	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Incentive	63	4.80	-	-	-	-	-	-	-	-	-	-	-	6	-	5	20	2	3	-	6	3	3	-	-	-	-	-	-	-	-	-	-	-	-	4	
Punch-press operators, class B	576	3.36	-	-	18	26	3	15	50	106	10	39	112	23	64	17	9	21	2	24	9	11	-	15	2	-	-	-	-	-	-	-	-	-	-		
Time	288	3.18	-	-	18	18	3	6	8	66	2	15	92	2	32	7	2	2	-	16	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Incentive	288	3.54	-	-	8	-	-	9	42	40	8	24	20	23	32	10	7	19	2	8	8	11	-	15	2	-	-	-	-	-	-	-	-	-	-	-	
Set-up men, machine tools	411	4.33	-	-	-	-	-	-	-	-	-	1	5	13	11	43	108	71	38	31	76	9	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
Time	392	4.33	-	-	-	-	-	-	-	-	-	1	5	13	10	39	99	68	38	31	76	9	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
Incentive	19	4.32	-	-	-	-	-	-	-	-	-	-	-	-	1	4	9	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tool and diemakers (jobbing) (all timeworkers)	1,888	5.61	-	-	-	-	-	-	-	-	-	-	-	-	1	-	5	9	10	101	65	90	150	417	307	294	337	102	-	-	-	-	-	-	-		
Tool and diemakers (other than jobbing)	753	4.98	-	-	-	-	-	-	-	-	-	-	-	-	-	15	33	61	76	104	40	225	48	45	91	5	5	5	5	5	5	5	5	5	5		
Time	745	4.98	-	-	-	-	-	-	-	-	-	-	-	-	-	15	33	61	76	100	36	225	48	45	91	5	5	5	5	5	5	5	5	5	5		
Tool clerks	348	3.84	-	-	1	-	-	-	-	-	2	2	61	57	57	27	68	33	28	4	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	320	3.84	-	-	1	-	-	-	-	-	2	2	61	57	43	25	56	33	28	4	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welders, hand, class A	2,440	4.35	-	-	-	-	-	-	-	-	-	19	91	435	209	189	144	786	192	25	266	23	26	18	-	2	15	-	-	-	-	-	-	-	-	-	
Time	2,192	4.30	-	-	-	-	-	-	-	-	-	19	91	435	170	151	119	761	177	10	258	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Incentive	248	4.79	-	-	-	-	-	-	-	-	-	-	-	-	-	39	38	25	25	15	15	8	22	26	18	-	2	15	-	-	-	-	-	-	-	-	
Welders, hand, class B	571	4.68	-	-	-	-	-	-	-	-	6	16	107	22	55	2	23	79	8	74	29	20	22	45	-	-	-	-	-	-	-	-	-	-	-	3	
Time	326	4.02	-	-	-	-	-	-	-	-	6	16	98	19	50	2	19	59	2	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Incentive	245	5.55	-	-	-	-	-	-	-	-	-	-	9	3	5	-	4	20	6	19	29	20	22	45	-	-	-	-	-	-	-	-	-	-	-	5	
Welders, machine, class A	176	4.31	-	-	-	-	1	-	-	-	8	4	1	3	3	46	70	4	7	-	25	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	
Time	145	4.35	-	-	-	-	1	-	-	-	8	4	1	1	-	42	69	3	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Incentive	31	4.15	-	-	-	-	-	-	-	-	-	-	-	2	3	4	1	1	7	-	1	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	
Welders, machine, class B	231	3.42	-	-	3	1	2	6	29	1	11	76	10	25	-	25	16	-	-	2	4	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	
Time	166	3.02	-	-	3	1	2	6	29	1	11	76	10	25	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Incentive	65	4.46	-	-	-	-	-	-	-	-	-	-	-	-	-	24	15	-	-	2	4	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	
Women																																					
Assemblers, class B	597	3.00	-	-	-	53	19	45	70	52	23	184	114	15	3	1	7	1	4	5	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Time	427	3.04	-	-	-	5	19	13	54	28	15	184	90	15	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Assemblers, class C	1,670	2.73	5	163	120	165	72	514	126	105	49	151	70	55	43	20	3	2	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	1,268	2.63	5	147	112	129	61	471	106	84	17	94	22	10	5	-	2	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class A (all timeworkers)	30	3.81	-	-	-	-	-	-	-	-	-	-	-	7	8	3	7	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class B	203	3.45	-	-	-	-	-	-	-	4	7	13	65	77	15	3	-	17	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	195	3.43	-	-	-	-	-	-	-	4	6	12	64	77	13	3	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class C	237	3.46	-	-	-	-	-	5	10	11	14	72	24	23	2	-	-	72	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	233	3.44	-	-	-	-	-	5	10	11	14	72	24	23	2	-	-	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners (all timeworkers)	82	3.19	-	-	1	2	8	4	10	5	8	15	2	1	-	9	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 7. Occupational earnings: Chicago, Ill.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1971)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																											
			Under \$2.20	\$2.20 and under \$2.30	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00	\$6.20 and over		
Women—Continued																														
Machine-tool operators, production, class A ³	56	\$3.71	-	-	-	-	-	-	-	-	-	4	22	6	3	-	3	14	1	2	1	-	-	-	-	-	-	-	-	-
Time	47	3.62	-	-	-	-	-	-	-	-	-	4	20	6	3	-	1	13	-	-	-	-	-	-	-	-	-	-	-	-
Incentive	9	4.21	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	1	1	2	1	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class A ⁴ _a /	10	3.86	-	-	-	-	-	-	-	-	-	4	-	-	-	-	1	3	1	1	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class A	14	3.71	-	-	-	-	-	-	-	-	-	-	2	6	3	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-
Time	9	3.59	-	-	-	-	-	-	-	-	-	-	-	6	3	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class B ³	165	3.37	-	-	3	8	-	1	19	15	26	36	5	8	14	14	8	5	3	-	-	-	-	-	-	-	-	-	-	-
Time	72	3.39	-	-	-	-	-	1	3	12	15	17	2	2	8	8	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Incentive	93	3.35	-	-	3	8	-	16	3	11	19	3	6	6	6	6	4	5	3	-	-	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class B	75	3.22	-	-	3	8	-	1	11	4	6	23	3	6	4	-	4	2	-	-	-	-	-	-	-	-	-	-	-	-
Time	12	3.03	-	-	-	-	-	1	3	1	3	4	-	-	-	-	4	2	-	-	-	-	-	-	-	-	-	-	-	-
Incentive	63	3.25	-	-	3	8	-	8	3	3	19	3	6	4	-	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class B	20	3.65	-	-	-	-	-	-	-	-	-	9	1	1	6	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	19	3.62	-	-	-	-	-	-	-	-	-	9	1	1	6	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Milling-machine operators, class B ⁴ _b /	29	3.53	-	-	-	-	-	8	-	8	-	-	1	1	5	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class C ³	597	2.93	-	-	30	4	51	25	216	44	35	85	75	7	1	1	6	3	10	4	-	-	-	-	-	-	-	-	-	-
Time	529	2.84	-	-	30	4	51	25	215	44	35	85	27	6	-	-	3	2	2	-	-	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class C	195	3.04	-	-	2	3	26	6	53	30	3	1	54	-	-	-	3	2	9	3	-	-	-	-	-	-	-	-	-	-
Time	133	2.78	-	-	2	3	26	6	52	30	3	1	6	-	-	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class C ⁴ _a /	79	3.08	-	-	1	1	5	4	3	4	3	47	7	-	-	-	2	1	1	-	-	-	-	-	-	-	-	-	-	-
Milling-machine operators, class C	26	3.13	-	-	-	-	2	-	-	10	7	4	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	23	3.05	-	-	-	-	2	-	-	10	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polishing- and buffing-machine operators (all timeworkers)	15	3.46	-	-	-	-	1	-	-	-	5	4	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Punch-press operators, class B	307	2.97	-	-	-	22	20	46	76	36	45	43	4	-	8	3	3	-	1	-	-	-	-	-	-	-	-	-	-	-
Time	222	2.90	-	-	-	22	4	38	65	36	34	22	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Incentive	85	3.17	-	-	-	-	16	8	11	-	11	21	3	-	8	3	3	-	1	-	-	-	-	-	-	-	-	-	-	-
Tool clerks (all timeworkers)	17	3.78	-	-	-	-	-	-	-	-	3	4	1	-	-	8	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Welders, machine, class B	116	2.97	-	-	-	4	1	55	7	6	27	7	3	-	-	-	1	1	2	2	-	-	-	-	-	-	-	-	-	-
Time	107	2.87	-	-	-	4	1	55	7	6	27	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Incentive	9	4.16	-	-	-	-	-	-	-	-	-	-	3	-	-	1	1	2	2	-	-	-	-	-	-	-	-	-	-	-

¹ The Chicago Standard Metropolitan Statistical Area consists of Cook, DuPage, Kane, Lake, McHenry, and Will Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

³ Includes data for operators of other machine tools in addition to those shown separately.

⁴ All workers were at \$ 6.40 to \$ 6.60.

⁵ Workers were distributed as follows: 30 at \$ 6.80 to \$ 7 and 30 at \$ 7 to \$ 7.20.

⁶ Insufficient data to warrant publication of separate averages by method of wage payment; (a) predominantly timeworkers, or (b) predominantly incentive workers.

Table 8. Occupational earnings: Cleveland, Ohio¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			Under																									
			\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	and over
<u>Men</u>																												
Assemblers, class A	1,516	\$4.05	-	-	-	-	-	-	-	-	-	-	-	6	17	225	87	137	410	283	71	59	39	18	22	35	101	6
Time	1,184	3.82	-	-	-	-	-	-	-	-	-	-	-	5	17	225	87	136	386	241	40	39	8	-	-	-	-	-
Incentive	332	4.86	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	24	42	31	20	31	18	22	35	101	6
Assemblers, class B	651	3.50	-	-	-	8	1	4	11	7	8	62	117	157	36	28	107	30	25	16	12	7	4	2	8	-	-	1
Time	530	3.36	-	-	-	8	1	4	11	7	8	62	117	157	27	19	73	12	18	6	-	-	-	-	-	-	-	-
Incentive	121	4.09	-	-	-	-	-	-	-	-	-	-	-	-	9	9	34	18	7	10	12	7	4	2	8	-	-	1
Assemblers, class C	288	3.10	-	12	6	3	3	42	8	31	39	19	24	9	9	47	5	11	-	3	5	1	8	2	1	-	-	-
Time	255	2.96	-	12	6	3	3	42	8	31	39	19	24	9	8	45	3	3	-	-	-	-	-	-	-	-	-	-
Incentive	33	4.18	-	-	-	-	-	-	-	-	-	-	-	-	2	2	8	-	-	3	5	1	8	2	1	-	-	-
Carpenters, maintenance	27	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	2	3	12	-	4	-	1	-	-	-	-
Time	26	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	2	3	12	-	4	-	-	-	-	-	-
Electricians, maintenance	180	4.32	-	-	-	-	-	-	-	-	-	-	-	-	8	22	9	26	15	11	35	11	23	20	-	-	-	-
Time	159	4.21	-	-	-	-	-	-	-	-	-	-	-	-	8	22	9	26	15	11	35	11	23	20	-	-	-	-
Inspectors, class A	296	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	23	25	48	118	30	29	5	12	1	5	-	-	-
Time	256	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	23	25	48	111	27	22	-	-	-	-	-	-	-
Inspectors, class B	249	3.98	-	-	-	-	-	-	-	-	8	-	-	2	7	5	59	65	56	20	10	6	9	2	-	-	-	-
Time	205	3.87	-	-	-	-	-	-	-	-	8	-	-	2	7	5	59	62	54	6	10	6	9	2	-	-	-	-
Incentive	44	4.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	14	10	5	8	2	-	-	-	-
Inspectors, class C	49	3.73	-	-	-	-	-	-	-	-	-	2	5	-	8	2	16	4	4	7	1	-	-	-	-	-	-	-
Time	35	3.54	-	-	-	-	-	-	-	-	-	2	5	-	8	2	15	3	-	-	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners	400	3.09	-	35	7	44	5	12	16	25	27	43	39	25	26	12	16	32	9	-	-	27	-	-	-	-	-	-
Time	369	2.98	-	35	7	44	5	12	16	25	27	43	39	25	26	12	16	32	5	-	-	-	-	-	-	-	-	-
Incentive	31	3.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laborers, material handling	306	3.50	-	7	-	-	-	8	-	1	4	20	31	34	84	21	8	31	9	1	-	38	1	8	-	-	-	-
Time	233	3.32	-	-	-	-	-	8	-	1	4	20	30	33	83	19	4	26	4	1	-	-	-	-	-	-	-	-
Machine-tool operators, production, class A ³	3,605	4.14	-	-	-	-	-	-	-	-	3	4	41	124	151	212	521	642	547	580	124	131	92	72	151	141	69	-
Time	2,833	3.92	-	-	-	-	-	-	-	-	3	4	38	122	151	210	510	604	501	523	66	80	21	-	-	-	-	-
Incentive	772	4.97	-	-	-	-	-	-	-	-	-	-	3	2	-	2	11	38	46	57	58	51	71	72	151	141	69	-
Automatic-lathe operators, class A	167	3.91	-	-	-	-	-	-	-	-	-	-	-	-	32	2	15	26	89	1	1	-	-	-	1	-	-	-
Time	159	3.90	-	-	-	-	-	-	-	-	-	-	-	-	32	2	14	26	84	-	1	-	-	-	-	-	-	-
Incentive	8	4.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	5	1	-	-	-	-	-	-	-
Drill-press operators, radial, class A	204	4.07	-	-	-	-	-	-	-	-	-	-	14	18	14	-	33	58	13	8	2	6	3	5	4	25	1	-
Time	148	3.70	-	-	-	-	-	-	-	-	-	-	14	18	14	-	33	55	11	3	2	5	2	6	3	5	4	25
Incentive	56	5.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	5	2	6	3	5	4	25	1
Drill-press operators, single- or multiple-spindle, class A	138	4.19	-	-	-	-	-	-	-	-	2	4	7	8	3	-	21	18	30	1	3	6	4	9	16	4	2	-
Time	84	3.73	-	-	-	-	-	-	-	-	2	4	6	8	3	-	19	16	26	-	-	-	-	-	-	-	-	-
Engine-lathe operators, class A	243	4.10	-	-	-	-	-	-	-	-	-	-	4	21	8	33	20	45	23	22	7	29	4	4	13	3	7	-
Time	191	3.87	-	-	-	-	-	-	-	-	-	-	4	21	8	32	20	42	21	20	2	21	-	-	-	-	-	-
Incentive	52	4.96	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	2	2	5	8	4	4	13	3	7	4
Grinding-machine operators, class A	761	4.32	-	-	-	-	-	-	-	-	1	-	3	14	10	40	105	74	105	151	39	56	34	21	35	42	31	-
Time	544	4.02	-	-	-	-	-	-	-	-	1	-	3	14	10	39	102	69	99	138	25	44	-	-	-	-	-	-
Incentive	217	5.08	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	5	6	13	14	12	34	21	35	42	31	-
Milling-machine operators, class A	434	4.26	-	-	-	-	-	-	-	-	-	-	3	10	13	21	38	79	45	106	27	12	16	19	19	14	12	-
Time	284	3.98	-	-	-	-	-	-	-	-	-	-	1	8	13	21	37	67	34	90	11	2	-	-	-	-	-	-
Incentive	150	4.79	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	1	12	11	16	10	16	19	19	14	12
Screw-machine operators, automatic, class A	189	4.40	-	-	-	-	-	-	-	-	-	-	-	2	1	9	1	4	3	44	87	-	1	-	1	13	16	7
Time	152	4.14	-	-	-	-	-	-	-	-	-	-	-	2	1	9	1	4	3	44	87	-	1	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class A	416	4.07	-	-	-	-	-	-	-	-	-	-	2	52	32	47	29	85	27	53	13	4	7	8	39	9	9	-
Time	304	3.75	-	-	-	-	-	-	-	-	-	-	2	52	32	47	28	78	21	42	2	-	-	-	-	-	-	-
Incentive	112	4.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	7	6	11	2	4	7	8	39	9	9

See footnotes at end of table.

Table 8. Occupational earnings: Cleveland, Ohio¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			Under \$2.20	\$2.20 and under \$2.30	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60
			and over																									
Men—Continued																												
Machine-tool operators, production, class B ³	1,480	\$3.85	-	-	-	-	-	-	21	30	24	34	71	96	86	143	237	255	207	81	46	36	24	24	27	27	11	-
Time	1,234	3.68	-	-	-	-	-	-	21	30	24	34	71	95	82	142	230	245	188	46	17	3	1	3	2	-	-	
Incentive	246	4.74	-	-	-	-	-	-	-	-	-	-	-	1	4	1	7	10	19	35	29	33	23	21	25	27	11	
Automatic-lathe operators, class B (all timeworkers)	110	3.70	-	-	-	-	-	-	-	-	8	-	8	3	21	45	1	-	14	10	-	-	-	-	-	-	-	
Drill-press operators, radial, class B	97	3.60	-	-	-	-	-	21	-	-	-	15	2	11	2	5	24	1	7	2	5	1	1	1	-	-	-	
Time	78	3.40	-	-	-	-	-	21	-	-	-	15	1	10	2	5	24	-	-	-	-	-	-	-	-	-	-	
Incentive	19	4.41	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	7	2	5	1	1	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class B	174	3.86	-	-	-	-	-	-	15	9	1	-	-	1	34	24	39	13	9	8	4	8	5	3	-	1	-	
Time	137	3.71	-	-	-	-	-	-	15	9	1	-	-	-	33	21	38	6	3	2	3	1	3	2	-	-	-	
Incentive	37	4.43	-	-	-	-	-	-	-	-	-	-	-	1	1	3	1	7	6	6	1	7	2	1	-	1	-	
Engine-lathe operators, class B	71	3.97	-	-	-	-	-	-	8	-	2	11	-	7	-	8	-	11	3	3	3	3	7	1	2	2	-	
Time	44	3.46	-	-	-	-	-	-	8	-	2	11	-	6	-	7	-	10	-	-	-	-	-	-	-	-	-	
Incentive	27	4.80	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	3	3	3	3	7	1	2	2	-	
Grinding-machine operators, class B	331	3.97	-	-	-	-	-	-	-	8	12	17	23	16	14	33	40	92	16	17	10	4	5	8	15	1	-	
Time	257	3.73	-	-	-	-	-	-	-	8	12	17	23	15	14	33	38	85	7	5	-	-	-	-	-	-	-	
Incentive	74	4.80	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	7	9	12	10	4	5	8	15	1	
Milling-machine operators, class B	178	4.09	-	-	-	-	-	-	1	-	1	10	15	2	2	6	76	23	7	3	9	5	3	5	3	7	-	
Time	134	3.78	-	-	-	-	-	-	1	-	1	10	15	2	2	6	76	21	-	-	-	-	-	-	-	-	-	
Incentive	44	5.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	7	3	9	5	3	5	3	6	7	
Screw-machine operators, automatic, class B ⁷	26	3.51	-	-	-	-	-	-	-	-	-	16	1	-	-	-	-	1	5	-	-	3	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class B	127	3.84	-	-	-	-	-	-	-	4	8	2	8	-	3	23	30	35	10	1	1	-	2	-	-	-	-	
Time	113	3.80	-	-	-	-	-	-	-	4	8	2	8	-	3	20	25	34	9	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class C ³	351	3.14	27	18	11	12	10	7	10	21	5	38	19	4	24	34	36	23	35	4	6	6	1	-	-	-	-	
Time	326	3.07	27	18	11	12	10	7	10	21	5	38	19	4	24	33	35	17	29	2	2	2	-	-	-	-	-	
Incentive	25	4.02	-	-	-	-	-	-	-	-	-	-	-	-	1	1	6	6	2	4	4	1	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class C	25	3.17	-	-	4	-	4	-	4	1	1	2	-	-	1	-	4	2	-	1	-	1	-	-	-	-	-	
Time	16	2.75	-	-	4	-	4	-	4	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Grinding-machine operators, class C	97	3.35	-	-	1	3	2	2	1	9	4	8	17	1	8	2	12	11	4	2	4	6	-	-	-	-	-	
Time	91	3.28	-	-	1	3	2	2	1	9	4	8	17	1	8	2	12	11	4	2	2	2	-	-	-	-	-	
Milling-machine operators, class C	53	3.34	-	-	1	2	1	1	1	8	-	-	-	-	23	1	6	6	2	1	-	-	-	-	-	-	-	
Time	43	3.22	-	-	1	2	1	1	1	8	-	-	-	-	23	-	4	2	-	-	-	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class C (all timeworkers)	13	3.40	-	-	-	-	-	-	-	-	2	-	3	-	-	6	2	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, toolroom (operate one type of machine)	499	4.41	-	-	-	-	-	-	-	-	-	-	-	-	2	20	24	43	122	59	82	29	35	38	5	18	22	
Time	420	4.28	-	-	-	-	-	-	-	-	-	-	-	-	2	20	24	43	115	51	72	27	33	33	-	-	-	
Machine-tool operators, toolroom (operate more than one type of machine)	190	4.07	-	-	-	-	-	-	-	-	-	-	-	10	-	28	37	20	33	21	16	1	10	1	4	1	8	
Time	176	3.96	-	-	-	-	-	-	-	-	-	-	-	10	-	28	37	20	33	21	16	1	10	-	-	-	-	
Machinists, maintenance (all timeworkers)	35	4.42	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	5	-	-	12	3	10	-	-	-	-	
Mechanics, maintenance	188	4.30	-	-	-	-	-	-	-	-	-	-	21	1	-	6	8	18	12	11	57	10	32	3	9	-	-	
Time	168	4.23	-	-	-	-	-	-	-	-	-	-	21	1	-	6	8	18	11	11	51	10	31	-	-	-	-	
Polishers and buffers, metal ⁷	49	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	20	-	2	2	3	6	2	-	-	-	

See footnotes at end of table.

Table 8. Occupational earnings: Cleveland, Ohio¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																											
			Under \$2.20	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	and over	
			\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	and over		
Men—Continued																														
Polishing- and buffing-machine operators	157	\$3.59	-	-	-	-	-	-	-	2	26	9	20	4	42	5	7	10	14	7	-	-	-	-	-	-	6	1	2	2
Time	125	3.35	-	-	-	-	-	-	-	2	26	9	20	4	42	5	7	10	-	-	-	-	-	-	-	-	-	-	-	-
Punch-press operators, class A	124	3.73	-	-	-	-	-	-	-	-	-	5	27	4	5	29	1	11	9	33	-	-	-	-	-	-	-	-	-	-
Time	114	3.70	-	-	-	-	-	-	-	-	-	5	27	4	4	29	-	10	9	26	-	-	-	-	-	-	-	-	-	-
Punch-press operators, class B	187	3.09	-	6	18	-	5	6	10	-	8	56	18	17	-	8	7	8	15	2	-	2	1	-	-	-	-	-	-	-
Time	172	3.02	-	6	18	-	5	6	10	-	8	56	18	16	-	7	7	-	15	-	-	-	-	-	-	-	-	-	-	-
Set-up men, machine tools	88	4.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	4	36	18	19	2	1	-	-	-	1	1	-	-
Time	86	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	4	36	18	19	2	1	-	-	-	-	-	-	-
Tool and diemakers (jobbing) (all timeworkers)	1,046	4.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	40	211	193	227	137	117	64	-	-	-	-	-
Tool and diemakers (other than jobbing)	458	4.45	-	-	-	-	-	-	-	-	-	-	-	-	-	4	36	4	100	60	103	71	14	28	10	21	7	-	-	-
Time	429	4.40	-	-	-	-	-	-	-	-	-	-	-	-	-	4	36	4	100	56	99	71	12	26	-	21	-	-	-	-
Tool clerks	163	3.67	-	-	-	-	-	3	3	-	11	2	5	9	20	14	38	29	16	5	1	6	1	-	-	-	-	-	-	-
Time	128	3.58	-	-	-	-	-	3	3	-	11	2	5	9	17	8	33	21	14	2	-	-	-	-	-	-	-	-	-	-
Welders, hand, class A	672	3.66	-	-	-	-	-	-	-	12	3	6	16	130	182	74	129	24	25	21	-	20	5	7	9	7	2	-	-	-
Time	628	3.56	-	-	-	-	-	-	-	12	3	6	16	130	182	74	129	24	24	21	-	4	3	-	-	-	-	-	-	-
Welders, hand, class B	368	3.30	-	3	6	15	12	24	6	-	24	18	47	43	14	51	11	6	21	65	1	-	1	-	-	-	-	-	-	-
Time	367	3.29	-	3	6	15	12	24	6	-	24	18	47	43	14	51	11	6	21	65	1	-	1	-	-	-	-	-	-	-
Welders, machine, class B (all timeworkers)	15	3.71	-	-	-	-	-	-	-	-	-	-	5	-	2	3	-	5	-	-	-	-	-	-	-	-	-	-	-	-
Women																														
Assemblers, class C	61	3.26	-	-	6	-	12	3	-	-	-	-	-	-	10	-	28	1	1	-	-	-	-	-	-	-	-	-	-	-
Time	59	3.23	-	-	6	-	12	3	-	-	-	-	-	-	10	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class B (all timeworkers)	48	3.12	-	-	-	-	-	-	20	-	2	7	6	4	5	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners (all timeworkers)	30	2.73	⁴	2	2	-	6	4	4	-	3	-	-	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class B (all timeworkers)	96	3.32	-	-	-	-	-	-	2	15	1	14	9	-	42	7	-	6	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class C ³ (all timeworkers)	163	3.00	-	-	7	-	10	12	1	21	22	33	43	-	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	-
Milling-machine operators, class C (all timeworkers)	14	2.85	-	-	-	-	-	-	12	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1 The Cleveland Standard Metropolitan Statistical Area consists of Cuyahoga, Geauga, Lake, and Medina Counties.
 2 Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
 3 Includes data for operators of other machine tools in addition to those shown separately.
 4 All workers were at \$5.60 to \$5.80.
 5 Workers were distributed as follows: 23 at \$5.60 to \$5.80; 4 at \$5.80 to \$6; and 4 at \$6 and over.
 6 Workers were distributed as follows: 3 at \$5.60 to \$5.80; 1 at \$5.80 to \$6; and 3 at \$6 and over.
 7 Insufficient data to warrant publication of separate averages by method of wage payment, predominantly timeworkers.
 8 All workers were at \$2 to \$2.10.

Table 9. Occupational earnings: Dallas, Tex.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																								
			Under \$1.80	\$1.80 and under \$1.90	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	and over
Men																											
Assemblers, class A	338	\$3.44	-	-	-	-	-	3	15	-	17	1	23	8	12	6	18	13	42	117	44	13	6	-	-	-	-
Assemblers, class B	279	2.89	-	-	2	-	6	1	43	12	23	15	7	14	14	35	22	26	13	44	1	-	-	-	-	-	-
Assemblers, class C	269	2.34	3	3	3	59	39	22	50	18	15	25	14	2	4	9	1	-	2	2	2	5	3	2	-	-	-
Electricians, maintenance	30	3.69	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	6	7	38	23	18	13	-	-	-	3
Inspectors, class A	111	3.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class B	127	2.99	-	-	-	-	-	-	19	16	2	11	5	8	25	1	3	10	12	15	-	-	-	-	-	-	-
Inspectors, class C	27	2.68	-	-	-	-	6	2	3	2	-	4	-	3	2	2	2	1	-	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners	139	2.45	-	7	-	4	3	19	22	18	12	4	16	5	1	-	-	-	-	-	-	-	-	-	-	-	-
Laborers, material handling	117	2.61	-	-	6	5	7	16	8	7	11	1	17	19	-	1	12	-	3	3	-	-	-	-	-	-	-
Machine-tool operators, production, class A³																											
Automatic-lathe operators, class A	72	3.38	-	-	-	-	-	-	-	-	-	-	6	4	8	24	16	24	54	166	178	80	73	4	-	-	-
Drill-press operators, radial, class A	26	3.37	-	-	-	-	-	-	-	-	-	-	2	-	-	-	6	9	5	-	4	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class A	53	3.26	-	-	-	-	-	-	-	-	-	-	4	2	10	-	2	28	6	1	-	-	-	-	-	-	-
Engine-lathe operators, class A	100	3.68	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	2	22	39	13	16	-	-	-	-	-
Grinding-machine operators, class A	45	3.69	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	20	7	1	9	4	-	-	-	-	-
Milling-machine operators, class A	96	3.66	-	-	-	-	-	-	-	-	-	-	-	-	-	5	4	4	24	13	35	11	-	-	-	-	-
Screw-machine operators, automatic, class A	47	3.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	31	-	9	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class A	138	3.57	-	-	-	-	-	-	-	-	-	-	-	-	6	1	8	5	44	59	4	11	-	-	-	-	-
Machine-tool operators, production, class B³																											
Automatic-lathe operators, class B	56	2.84	-	-	-	-	-	6	20	12	29	43	63	64	52	83	51	10	41	4	-	-	-	-	-	-	-
Drill-press operators, radial, class B	11	2.96	-	-	-	-	-	2	2	12	-	4	9	12	-	11	4	-	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class B	33	2.83	-	-	-	-	-	2	-	-	13	-	7	2	9	-	-	-	-	-	-	-	-	-	-	-	-
Engine-lathe operators, class B	22	3.02	-	-	-	-	-	-	-	-	4	6	2	2	4	-	-	4	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class B	31	3.01	-	-	-	-	-	-	-	-	-	8	8	10	-	-	1	3	-	-	-	-	-	-	-	-	-
Milling-machine operators, class B	65	3.04	-	-	-	-	-	-	-	-	2	14	8	2	11	-	21	-	7	-	-	-	-	-	-	-	-
Screw-machine operators, automatic, class B	19	3.21	-	-	-	-	-	-	-	-	-	4	4	-	1	1	-	9	-	-	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class B	91	3.02	-	-	-	-	-	-	-	-	6	5	21	18	13	1	11	3	13	-	-	-	-	-	-	-	-
Machine-tool operators, production, class C³																											
Automatic-lathe operators, class C	277	2.54	-	-	14	17	35	17	37	37	28	31	35	5	12	5	4	-	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class C	64	2.39	-	-	8	2	12	4	18	12	-	-	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class C	17	2.60	-	-	4	-	-	-	-	-	2	-	-	10	-	-	1	-	-	-	-	-	-	-	-	-	-
Milling-machine operators, class C	16	2.37	-	-	-	-	10	-	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class C	52	2.62	-	-	-	8	2	-	2	7	7	11	10	1	1	-	3	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, toolroom (operate more than 1 type of machine)																											
Machinists, maintenance	11	3.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1	20	41	29	39	12	6	-	-
Machinists, production	60	3.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	11	3	-	-	-	-	2
Mechanics, maintenance	41	3.49	-	-	-	-	-	-	-	-	-	-	-	3	4	6	4	-	43	11	1	-	-	-	-	-	-
Punch-press operators, class A	85	3.12	-	-	-	-	-	-	3	-	7	1	1	9	51	-	5	5	3	-	-	-	-	-	-	-	-
Punch-press operators, class B	75	2.38	-	-	16	4	4	12	2	-	9	10	2	12	1	2	-	1	-	-	-	-	-	-	-	-	-
Tool and diemakers (jobbing)	115	4.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	13	31	62	-	-	-	-	-
Tool and diemakers (other than jobbing)	83	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	6	9	11	30	12	8	-	-
Tool clerks	47	3.05	-	-	-	-	2	-	-	-	1	4	3	2	11	4	6	3	4	7	-	-	-	-	-	-	-
Welders, hand, class A	232	3.54	-	-	-	-	-	-	-	-	1	3	8	-	4	27	21	1	27	125	1	9	6	-	-	-	-
Welders, hand, class B	89	2.90	-	-	-	-	-	-	10	12	4	13	4	1	18	6	3	17	-	-	1	-	-	-	-	-	-
Welders, machine, class A	30	3.31	-	-	-	-	-	-	-	-	-	-	-	-	11	1	-	2	13	3	-	-	-	-	-	-	-
Welders, machine, class B	24	2.74	-	-	-	-	-	14	-	-	-	-	-	-	-	-	4	6	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Occupational earnings: Dallas, Tex.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			Under \$1.80	\$1.80 and under \$1.90	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	and over		
Women																													
Assemblers, class B.....	79	\$2.53	-	-	-	-	-	-	-	2	63	-	-	1	1	4	6	-	2	-	-	-	-	-	-	-	-	-	-
Assemblers, class C.....	123	2.31	-	-	-	8	37	-	-	54	12	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class B.....	10	2.92	-	-	-	-	-	-	-	-	-	-	2	-	1	3	3	-	-	1	-	-	-	-	-	-	-	-	-
Inspectors, class C.....	40	2.19	-	8	4	-	-	4	4	4	15	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ The Dallas Standard Metropolitan Statistical Area consists of Collin, Dallas, Denton, Ellis, Kaufman, and Rockwall Counties.
² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
³ Includes data for operators of other machine tools in addition to those shown separately.

Table 10. Occupational earnings: Denver, Colo.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																												
			Under \$2.10	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00	and over		
Men																															
Assemblers, class A (all timeworkers).....	219	\$3.63	-	-	-	-	-	-	-	-	2	8	34	55	34	79	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Assemblers, class B.....	96	3.42	-	-	-	-	2	-	-	4	4	24	29	16	7	-	1	-	-	6	3	-	-	-	-	-	-	-	-	-	-
Time.....	94	3.42	-	-	-	-	2	-	-	4	4	24	29	14	7	-	1	-	-	6	3	-	-	-	-	-	-	-	-	-	-
Inspectors, class A (all timeworkers).....	71	4.12	-	-	-	-	-	-	-	-	-	-	-	-	2	12	39	15	3	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class B (all timeworkers).....	36	3.51	-	-	-	-	-	2	-	-	1	2	10	3	13	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners (all timeworkers).....	84	2.86	8	3	-	2	2	-	7	10	4	10	32	-	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laborers, material handling (all timeworkers).....	45	2.94	-	-	-	-	9	7	5	6	1	4	2	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class A ³	492	4.39	-	-	-	-	-	-	-	-	-	-	-	1	11	48	120	95	46	48	24	7	9	8	15	11	18	31	-	-	
Time.....	365	4.04	-	-	-	-	-	-	-	-	-	-	-	1	11	45	112	90	42	43	21	-	-	-	-	-	-	-	-	-	-
Automatic-lathe operators, class A ⁴	6	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-
Drill-press operators, radial, class A.....	30	4.73	-	-	-	-	-	-	-	-	-	-	-	1	4	4	3	4	1	-	-	-	3	-	-	1	1	1	5	7	-
Time.....	11	3.68	-	-	-	-	-	-	-	-	-	-	-	1	4	1	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class A.....	6	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	1	-	2	-	-	-	-	-	-	-	-	-	-
Engine-lathe operators, class A.....	148	4.05	-	-	-	-	-	-	-	-	-	-	-	-	17	47	55	13	7	4	-	-	-	2	-	-	-	-	-	-	-
Time.....	135	4.00	-	-	-	-	-	-	-	-	-	-	-	-	17	39	55	13	7	4	-	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class A.....	44	5.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	8	7	5	-	1	1	-	2	3	6	7	9	-	
Time.....	22	4.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	8	7	5	-	-	-	-	-	-	-	-	-	-	-
Milling-machine operators, class A.....	83	4.54	-	-	-	-	-	-	-	-	-	-	-	-	4	15	8	10	19	9	4	3	2	-	1	2	6	-	-	-	
Time.....	61	4.22	-	-	-	-	-	-	-	-	-	-	-	-	4	15	7	9	19	7	-	-	-	-	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class A.....	69	4.81	-	-	-	-	-	-	-	-	-	-	-	4	4	12	5	-	9	1	2	2	5	8	4	7	6	-	-	-	
Time.....	29	3.91	-	-	-	-	-	-	-	-	-	-	-	4	4	12	3	-	6	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 10. Occupational earnings: Denver, Colo.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Num-ber of work-ers	Aver-age hourly earn-ings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00
			and under \$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00	and over
<u>Men—Continued</u>																												
Machine-tool operators, production, class B ³	186	\$3.69	-	-	-	-	-	-	-	-	-	1	21	43	21	49	34	2	-	-	-	2	1	1	3	1	3	4
Time.....	169	3.52	-	-	-	-	-	-	-	-	1	21	43	21	47	34	2	-	-	-	-	-	-	-	-	-	-	-
Drill-press operators, radial, class B (all timeworkers).....	14	3.58	-	-	-	-	-	-	-	-	-	-	3	3	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class B.....	33	3.54	-	-	-	-	-	-	-	-	-	2	13	5	6	6	-	-	-	-	-	-	-	-	1	-	-	-
Time.....	32	3.48	-	-	-	-	-	-	-	-	-	2	13	5	6	6	-	-	-	-	-	-	-	-	-	-	-	-
Engine-lathe operators, class B.....	40	3.33	-	-	-	-	-	-	-	-	-	16	12	1	8	3	-	-	-	-	-	-	-	-	-	-	-	-
Time.....	39	3.32	-	-	-	-	-	-	-	-	-	16	12	1	7	3	-	-	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class B (all timeworkers).....	31	3.77	-	-	-	-	-	-	-	-	-	-	1	2	11	15	2	-	-	-	-	-	-	-	-	-	-	-
Milling-machine operators, class B ⁴	15	4.02	-	-	-	-	-	-	-	-	-	-	1	4	-	7	-	-	-	-	-	1	1	-	-	-	1	-
Turret-lathe operators, hand (including hand screw machine), class B.....	26	4.41	-	-	-	-	-	-	-	-	1	2	5	2	5	-	-	-	-	-	-	1	-	1	2	1	2	⁶ 4
Time.....	14	3.37	-	-	-	-	-	-	-	-	1	2	5	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class C ⁴	22	3.48	-	-	-	-	-	-	-	-	1	-	3	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, toolroom (operate one type of machine) (all timeworkers).....	6	4.35	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-	2	-	-	-	-	-	
Machine-tool operators, toolroom (operate more than one type of machine) (all timeworkers).....	72	3.96	-	-	-	-	-	-	-	-	-	-	10	7	19	19	16	1	-	-	-	-	-	-	-	-	-	-
Machinists, maintenance (all timeworkers).....	22	4.26	-	-	-	-	-	-	-	-	-	-	-	3	1	4	2	12	-	-	-	-	-	-	-	-	-	-
Machinists, production (all timeworkers).....	39	3.72	-	-	-	-	-	-	-	-	-	-	8	20	10	-	1	-	-	-	-	-	-	-	-	-	-	-
Mechanics, maintenance (all timeworkers).....	34	3.93	-	-	-	-	-	-	-	-	-	-	-	7	17	8	2	-	-	-	-	-	-	-	-	-	-	-
Set-up men, machine tools (all timeworkers).....	6	3.71	-	-	-	-	-	-	-	-	2	-	1	-	1	-	-	2	-	-	-	-	-	-	-	-	-	
Tool and diemakers (other than jobbing) (all timeworkers).....	90	5.06	-	-	-	-	-	-	-	-	-	-	2	23	4	2	-	6	4	6	13	7	8	23	8	8	6	1
Tool clerks (all timeworkers).....	34	3.48	-	-	-	-	-	-	-	-	-	3	2	23	4	2	-	-	-	-	-	-	-	-	-	-	-	-
Welders, hand, class A.....	129	3.93	-	-	-	-	-	-	-	-	-	-	5	15	14	78	3	3	6	-	-	-	-	1	-	-	1	3
Time.....	124	3.85	-	-	-	-	-	-	-	-	-	-	5	15	14	78	3	3	6	-	-	-	-	-	-	-	-	-
Welders, hand, class B (all timeworkers).....	69	3.59	-	-	-	-	-	-	-	-	4	8	-	10	1	30	16	-	-	-	-	-	-	-	-	-	-	-
Welders, machine, class B (all timeworkers).....	27	3.24	-	-	8	-	1	-	-	-	1	-	1	2	-	14	-	-	-	-	-	-	-	-	-	-	-	-
<u>Women</u>																												
Assemblers, class B (all timeworkers).....	75	2.81	6	6	-	4	2	2	10	17	5	9	7	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Assemblers, class C (all timeworkers).....	164	2.39	-	26	14	84	4	10	2	-	1	4	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ The Denver Standard Metropolitan Statistical Area consists of Adams, Arapahoe, Boulder, Denver, and Jefferson Counties.
² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
³ Includes data for operators of other machine tools in addition to those shown separately.
⁴ Insufficient data to warrant publication of separate averages by method of wage payment, predominantly timeworkers.
⁵ Workers were distributed as follows: 2 at \$6 to \$6.20; 1 at \$6.20 to \$6.40; 1 at \$6.40 to \$6.60; and 3 at \$6.60 to \$6.80.
⁶ Workers paid under time and incentive systems were divided equally.
⁷ Workers were distributed as follows: 3 at \$6 to \$6.20; 4 at \$6.20 to \$6.40; 1 at \$6.60 to \$6.80; and 1 at \$6.80 to \$7.
⁸ Workers were distributed as follows: 2 at \$6 to \$6.20; and 2 at \$6.20 to \$6.40.

Table 11. Occupational earnings: Detroit, Mich.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1971)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			Under \$2.20	\$2.20 and under \$2.30	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00
Men																												
Assemblers, class A ³	1,276	\$4.99	-	-	-	-	-	-	-	-	-	-	-	-	-	60	80	198	66	1	109	306	92	133	142	80	9	
Assemblers, class B	2,653	4.16	-	-	-	-	-	-	-	-	2	96	194	188	157	265	1339	258	149	1	-	-	1	2	1	-	-	
Time	2,527	4.15	-	-	-	-	-	-	-	-	2	96	194	188	157	265	1303	168	149	1	-	-	1	2	1	-	-	
Assemblers, class C	777	3.99	-	-	-	-	-	-	-	39	-	26	39	50	142	47	434	-	-	-	-	-	-	-	-	-	-	
Time	764	3.99	-	-	-	-	-	-	-	39	-	26	39	50	142	34	434	-	-	-	-	-	-	-	-	-	-	
Carpenters, maintenance ³	40	4.75	-	-	-	-	-	-	-	-	-	-	-	-	6	2	8	3	11	-	-	-	10	-	-	-	-	
Electricians, maintenance ³	205	5.10	-	-	-	-	-	-	-	-	-	-	-	-	4	20	8	3	58	11	26	68	7	-	-	-	-	
Inspectors, class A ³	368	4.62	-	-	-	-	-	-	-	-	-	-	34	9	8	81	95	2	46	28	30	26	4	5	-	-		
Inspectors, class B ³	661	4.25	-	-	-	-	-	-	-	-	2	2	34	101	44	378	72	11	11	6	-	-	-	-	-	-	-	
Inspectors, class C ³	107	4.11	-	-	-	-	-	2	8	1	57	38	61	44	150	82	96	254	8	-	-	-	-	-	-	-		
Janitors, porters, and cleaners ³	906	3.51	-	26	9	36	36	8	1	57	38	61	44	150	82	96	254	8	-	-	-	-	-	-	-	-		
Laborers, material handling ³	730	3.74	-	-	-	8	8	-	-	12	38	61	44	150	82	96	254	8	-	-	-	-	-	-	-	-		
Machine-tool operators, production, class A ⁴	4,831	4.65	-	-	-	-	-	-	-	-	-	-	-	91	115	689	615	1210	563	287	334	384	283	170	63	27		
Time	4,755	4.65	-	-	-	-	-	-	-	-	-	-	-	90	114	685	598	1192	553	279	321	381	282	170	63	27		
Drill-press operators, radial, class A ³	106	4.62	-	-	-	-	-	-	-	-	-	-	-	-	16	40	10	4	3	2	22	8	1	-	-	-		
Drill-press operators, single- or multiple-spindle, class A ³	114	4.25	-	-	-	-	-	-	-	-	-	-	-	-	53	27	33	-	-	-	-	1	-	-	-	-		
Engine-lathe operators, class A	261	4.76	-	-	-	-	-	-	-	-	-	-	-	-	49	50	15	18	40	23	30	17	19	-	-	-		
Time	257	4.77	-	-	-	-	-	-	-	-	-	-	-	-	47	50	14	18	39	23	30	17	19	-	-	-		
Grinding-machine operators, class A	1,807	4.64	-	-	-	-	-	-	-	-	-	-	-	36	85	245	127	486	278	134	63	198	84	52	19	-		
Time	1,763	4.64	-	-	-	-	-	-	-	-	-	-	-	35	85	243	117	481	270	127	55	196	83	52	19	-		
Milling-machine operators, class A	579	4.79	-	-	-	-	-	-	-	-	-	-	10	1	34	66	142	58	44	90	74	33	18	8	1	-		
Time	560	4.80	-	-	-	-	-	-	-	-	-	-	10	1	34	60	136	57	44	86	73	33	18	8	1	-		
Screw-machine operators, automatic, class A	206	4.49	-	-	-	-	-	-	-	-	-	-	-	21	56	19	33	42	-	7	14	7	7	-	-	-		
Time	201	4.49	-	-	-	-	-	-	-	-	-	-	-	21	56	18	29	42	-	7	14	7	7	-	-	-		
Turret-lathe operators, hand (including hand screw machine), class A	433	4.54	-	-	-	-	-	-	-	-	-	-	-	9	52	79	185	14	14	35	27	7	9	2	-	-		
Time	430	4.54	-	-	-	-	-	-	-	-	-	-	-	9	52	79	184	13	14	34	27	7	9	2	-	-		
Machine-tool operators, production, class B ⁴	5,077	4.16	-	-	-	-	-	-	-	25	36	90	253	214	688	736	2274	601	92	30	15	21	-	-	2	-		
Time	4,809	4.15	-	-	-	-	-	-	-	25	36	90	253	214	688	736	2132	475	92	30	15	21	-	-	2	-		
Automatic-lathe operators, class B ³	108	4.19	-	-	-	-	-	-	-	-	-	-	-	45	1	52	2	8	-	-	-	-	-	-	-	-		
Drill-press operators, radial, class B ³	529	4.11	-	-	-	-	-	-	-	-	-	38	13	131	26	321	-	-	-	-	-	-	-	-	-	-		
Engine-lathe operators, class B ³	134	4.13	-	-	-	-	-	-	-	-	-	9	-	-	62	63	-	-	-	-	-	-	-	-	-	-		
Grinding-machine operators, class B	1,605	4.12	-	-	-	-	-	-	-	-	36	62	83	63	279	335	428	253	36	22	1	7	-	-	-	-		
Time	1,578	4.11	-	-	-	-	-	-	-	-	36	62	83	63	279	335	428	226	36	22	1	7	-	-	-	-		
Milling-machine operators, class B	498	4.15	-	-	-	-	-	-	-	-	-	26	43	-	93	115	71	112	8	2	14	14	-	-	-	-		
Time	472	4.13	-	-	-	-	-	-	-	-	-	26	43	-	93	115	71	86	8	2	14	14	-	-	-	-		
Screw-machine operators, automatic, class B ³	188	4.30	-	-	-	-	-	-	-	-	-	-	8	2	-	72	3	103	-	-	-	-	-	-	-	-		
Turret-lathe operators, hand (including hand screw machine), class B	317	4.05	-	-	-	-	-	-	-	25	-	2	9	26	76	66	54	56	1	-	-	-	-	2	-	-		
Time	294	4.01	-	-	-	-	-	-	-	25	-	2	9	26	76	66	54	33	1	-	-	-	-	2	-	-		
Machine-tool operators, production, class C ⁴	1,157	3.32	26	13	72	72	117	43	84	67	264	147	45	10	12	119	22	30	14	-	-	-	-	-	-			
Time	1,148	3.31	26	13	72	72	117	43	84	67	264	147	44	10	5	118	22	30	14	-	-	-	-	-	-			
Drill-press operators, single- or multiple-spindle, class C	109	3.57	-	-	-	-	-	6	3	-	9	51	6	1	4	4	25	-	-	-	-	-	-	-	-	-		
Time	105	3.55	-	-	-	-	-	6	3	-	9	51	6	1	4	-	25	-	-	-	-	-	-	-	-	-		

See footnotes at end of table.

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Table 11. Occupational earnings: Detroit, Mich.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1971)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			Under \$2.20	\$2.20 and under \$2.30	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00 and over	
<u>Men—Continued</u>																													
Machine-tool operators, production, class C ⁴ —Continued																													
Grinding-machine operators, class C	554	\$3.18	-	13	-	-	-	72	72	85	-	-	13	161	47	24	6	1	30	-	30	-	-	-	-	-	-	-	
Time	553	3.18	-	13	-	-	-	72	72	85	-	-	13	161	47	23	6	1	30	-	30	-	-	-	-	-	-	-	
Milling-machine operators, class C	202	3.51	-	13	-	13	-	-	-	13	13	26	15	15	15	8	-	5	33	19	-	14	-	-	-	-	-	-	
Time	198	3.50	-	13	-	13	-	-	-	13	13	26	15	15	15	8	-	2	32	19	-	14	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class C ³	44	3.12	-	-	-	-	-	-	-	-	-	-	27	-	15	-	2	-	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, toolroom (operate one type of machine) ³	2,959	5.26	-	-	-	-	-	-	-	-	-	-	-	-	-	5	17	63	107	266	163	561	598	460	409	261	49		
Machine-tool operators, toolroom (operate more than one type of machine) ³	770	4.98	-	-	-	-	-	-	-	-	-	-	-	-	-	33	33	-	50	43	107	50	174	74	126	8	36	36	
Machinists, maintenance ³	260	4.92	-	-	-	-	-	-	-	-	-	-	-	-	-	10	2	6	50	38	53	34	2	64	1	-	-	-	
Machinists, production ³	185	4.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110	-	14	-	4	-	9	48	-	-	-	
Mechanics, maintenance ³	305	4.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	4	5	37	19	98	44	38	38	-	8		
Polishers and buffers, metal	143	4.31	-	-	-	-	-	-	-	-	-	-	-	-	-	33	2	25	19	32	-	-	-	5	8	-	-	-	
Time	126	4.26	-	-	-	-	-	-	-	-	-	-	-	-	-	33	2	25	19	19	15	-	-	5	8	-	-	-	
Polishing- and buffing-machine operators ³	50	4.04	-	-	-	-	-	-	-	-	-	-	13	1	6	-	-	-	-	30	-	-	-	-	-	-	-	-	-
Punch-press operators, class A ³	22	4.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	3	3	-	-	-
Punch-press operators, class B	238	3.90	-	-	-	-	-	-	-	-	-	-	44	32	7	66	27	24	38	-	-	-	-	-	-	-	-	-	-
Time	199	3.79	-	-	-	-	-	-	-	-	-	-	44	32	7	66	27	23	-	-	-	-	-	-	-	-	-	-	-
Set-up men, machine tools ³	741	4.51	-	-	-	-	-	-	-	-	-	-	3	-	-	41	19	46	404	223	2	-	-	-	3	-	-	-	-
Tool and diemakers (jobbing) ³	3,355	5.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	42	100	59	325	837	1362	392	201	29		
Tool and diemakers (other than jobbing) ³	351	5.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	2	15	6	81	14	105	111	1	-	
Tool clerks ³	243	3.96	-	-	-	-	-	-	-	2	-	-	10	31	31	64	19	76	10	-	-	-	-	-	-	-	-	-	
Welders, hand, class A ³	638	4.47	-	-	-	-	-	-	-	-	-	-	-	-	60	56	42	131	182	28	20	42	26	43	8	-	-	-	
Welders, hand, class B ³	796	4.02	-	-	-	-	-	-	-	-	-	-	24	210	197	113	194	44	-	-	-	7	-	-	-	-	-	-	
Welders, machine, class A ³	37	4.27	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	6	2	-	1	8	-	-	-	-	-	-	
Welders, machine, class B ^{3a/}	11	4.23	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	2	5	-	-	-	-	-	-	-	-	-	
<u>Women</u>																													
Assemblers, class B	80	3.76	-	-	-	-	-	-	-	-	-	-	28	10	1	5	20	10	6	-	-	-	-	-	-	-	-	-	-
Time	74	3.70	-	-	-	-	-	-	-	-	-	-	28	10	1	5	20	10	-	-	-	-	-	-	-	-	-	-	-
Assemblers, class C	1,153	3.70	-	-	-	-	13	-	-	-	-	63	6	140	98	553	-	280	-	-	-	-	-	-	-	-	-	-	-
Time	873	3.59	-	-	-	-	13	-	-	-	-	63	6	140	98	553	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class B ³	51	3.96	-	-	-	-	-	-	-	-	-	-	-	-	24	-	6	21	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class C ³	248	3.69	-	-	-	-	-	-	-	2	-	-	-	99	122	10	15	-	-	-	-	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners ³	58	2.70	6	26	-	-	-	-	-	-	-	3	-	25	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class B ³	175	4.15	-	-	-	-	-	-	-	-	-	-	22	-	14	-	-	127	12	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class C ⁴	596	2.70	150	194	-	-	104	-	-	-	-	-	2	4	4	19	62	56	-	1	-	-	-	-	-	-	-	-	-
Time	532	2.53	150	194	-	-	104	-	-	-	-	-	2	4	4	18	-	56	-	-	-	-	-	-	-	-	-	-	-
Milling-machine operators, class C ^{3b/}	41	4.20	-	-	-	-	-	-	-	-	-	-	-	-	-	1	21	18	-	1	-	-	-	-	-	-	-	-	-

¹ The Detroit Standard Metropolitan Statistical Area consists of Macomb, Oakland, and Wayne Counties.
² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
³ All workers were paid on a time basis.
⁴ Includes data for operators of other machine tools in addition to those shown separately.
⁵ Insufficient data to warrant publication of separate averages by method of wage payment; (a) predominantly timeworkers, or (b) predominantly incentive workers.
⁶ All workers were at \$2 to \$2.10.
⁷ Workers were distributed as follows: 38 at \$2 to \$2.10, and 112 at \$2.10 to \$2.20.

Table 12. Occupational earnings: Hartford—New Britain—Bristol, Conn.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			Under \$2.20	\$2.20 and under \$2.30	\$2.30-\$2.40	\$2.40-\$2.50	\$2.50-\$2.60	\$2.60-\$2.70	\$2.70-\$2.80	\$2.80-\$2.90	\$2.90-\$3.00	\$3.00-\$3.10	\$3.10-\$3.20	\$3.20-\$3.30	\$3.30-\$3.40	\$3.40-\$3.50	\$3.50-\$3.60	\$3.60-\$3.80	\$3.80-\$4.00	\$4.00-\$4.20	\$4.20-\$4.40	\$4.40-\$4.60	\$4.60-\$4.80	\$4.80-\$5.00	\$5.00-\$5.20	\$5.20-\$5.40	\$5.40-\$5.60	\$5.60 and over	
Men																													
Assemblers, class A	216	\$3.94	-	-	-	-	-	-	-	-	-	4	6	1	3	4	9	19	59	77	21	8	3	2	-	-	-	-	
Time	121	3.95	-	-	-	-	-	-	-	-	-	-	-	-	2	-	14	39	57	9	-	-	-	-	-	-	-	-	
Incentive	95	3.92	-	-	-	-	-	-	-	-	-	4	6	1	3	2	9	5	20	20	12	8	3	2	-	-	-	-	
Assemblers, class B	402	3.27	-	1	-	-	-	5	16	78	89	37	39	24	4	13	47	32	6	8	2	-	-	-	-	1	-	-	
Time	134	3.43	-	-	-	-	-	-	-	6	12	20	18	14	-	9	32	23	-	-	-	-	-	-	-	-	-	-	
Assemblers, class C	274	3.38	3	-	-	6	24	19	9	64	7	6	15	5	4	6	8	17	65	4	8	3	1	-	-	-	-	-	
Time	174	3.30	-	-	-	4	23	7	5	60	5	1	10	-	-	-	-	-	59	-	-	-	-	-	-	-	-	-	
Incentive	100	3.52	3	-	-	2	1	12	4	4	2	5	5	5	4	6	8	17	6	4	8	3	1	-	-	-	-	-	
Carpenters, maintenance (all timeworkers)	16	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	1	7	3	2	-	-	-	-	-	-	-	3	-	
Electricians, maintenance	107	4.76	-	-	-	-	-	-	-	-	-	-	1	1	2	2	5	17	10	8	3	2	-	-	-	-	-	56	
Time	105	4.76	-	-	-	-	-	-	-	-	-	-	1	1	2	2	5	17	10	8	1	2	-	-	-	-	56	-	
Inspectors, class A	169	3.78	-	-	-	-	-	-	-	-	-	-	-	24	2	3	7	16	38	15	-	-	-	-	-	-	-	-	
Time	151	3.81	-	-	-	-	-	-	-	-	-	-	-	24	1	1	56	16	38	15	-	-	-	-	-	-	-	-	
Inspectors, class B (all timeworkers)	102	3.42	-	-	-	-	-	2	-	-	2	7	17	32	10	14	6	12	-	-	-	-	-	-	-	-	-	-	
Inspectors, class C (all timeworkers)	530	3.46	-	-	-	-	-	-	-	18	7	87	223	57	15	-	-	-	38	85	-	-	-	-	-	-	-	-	
Janitors, porters, and cleaners	174	3.09	8	-	-	7	7	13	31	-	19	40	2	3	2	-	-	-	42	-	-	-	-	-	-	-	-	-	
Time	172	3.09	8	-	-	7	7	13	31	-	19	40	2	1	2	-	-	-	42	-	-	-	-	-	-	-	-	-	
Laborers, material handling	203	3.16	-	-	-	3	33	25	14	2	20	10	39	2	4	-	-	-	1	50	-	-	-	-	-	-	-	-	
Time	199	3.17	-	-	-	1	33	25	14	2	20	10	39	2	2	-	-	-	1	50	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class A ³	1,482	3.87	-	1	2	-	1	-	1	5	6	11	25	38	54	81	91	229	305	335	212	61	21	3	-	-	-	-	
Time	1,280	3.88	-	1	2	-	1	-	1	5	6	10	25	36	51	60	64	187	262	294	200	57	18	-	-	-	-	-	
Incentive	202	3.85	-	-	-	-	-	-	-	-	-	1	-	2	3	21	27	42	43	41	12	4	3	3	-	-	-	-	
Automatic-lathe operators, class A	26	4.00	-	-	-	-	-	-	-	-	-	-	-	-	-	1	7	2	9	1	5	-	1	-	-	-	-	-	
Time	22	3.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	9	-	5	-	-	-	-	-	-	-	
Drill-press operators, radial, class A	39	3.67	-	-	-	-	-	-	-	-	4	-	1	5	1	6	1	16	4	1	-	-	-	-	-	-	-	-	
Time	26	3.58	-	-	-	-	-	-	-	-	4	-	5	-	5	-	9	3	-	-	-	-	-	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class A ^{3a}	38	3.65	-	-	-	-	-	-	-	4	-	-	-	6	2	3	4	13	6	-	-	-	-	-	-	-	-	-	
Engine-lathe operators, class A	238	3.88	-	1	-	-	-	-	-	-	4	12	2	9	15	11	35	54	26	34	35	-	-	-	-	-	-	-	
Time	227	3.89	-	1	-	-	-	-	-	-	4	12	2	9	14	8	32	52	24	34	35	-	-	-	-	-	-	-	
Incentive	11	3.73	-	-	-	-	-	-	-	-	-	-	-	-	1	3	3	2	2	-	-	-	-	-	-	-	-	-	
Grinding-machine operators, class A	371	3.92	-	-	2	-	1	-	-	-	-	-	-	6	32	30	53	69	97	67	12	1	1	-	-	-	-	-	
Time	304	3.92	-	-	2	-	1	-	-	-	-	-	-	4	24	24	42	57	75	65	10	-	-	-	-	-	-	-	
Incentive	67	3.89	-	-	-	-	-	-	-	-	-	-	-	2	8	6	11	12	22	2	2	1	1	-	-	-	-	-	
Milling-machine operators, class A	208	3.68	-	-	-	-	-	1	5	2	2	8	22	14	3	18	39	49	33	12	-	-	-	-	-	-	-	-	
Time	173	3.67	-	-	-	-	-	1	5	2	2	8	22	13	-	8	29	43	32	8	-	-	-	-	-	-	-	-	
Incentive	35	3.74	-	-	-	-	-	-	-	-	-	-	-	1	3	10	10	6	1	4	-	-	-	-	-	-	-	-	
Screw-machine operators, automatic, class A (all incentive workers)	9	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	-	-	-	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class A	175	3.91	-	-	-	-	-	-	-	-	1	5	-	4	15	11	25	29	61	5	1	18	-	-	-	-	-	-	
Time	156	3.94	-	-	-	-	-	-	-	-	5	-	4	8	8	23	26	59	5	-	18	-	-	-	-	-	-	-	
Machine-tool operators, production, class B ³	1,742	3.80	-	3	1	-	5	2	16	13	22	50	85	83	126	119	116	183	176	321	321	12	75'	7	1	1	2	2	
Time	1,133	3.84	-	-	-	-	5	-	6	5	16	38	69	54	90	77	72	65	39	245	282	-	70	-	-	-	-	-	
Drill-press operators, radial, class B	29	3.36	-	-	-	-	-	-	-	5	-	-	8	1	-	3	8	1	1	1	-	-	-	-	-	-	-	-	
Time	18	3.17	-	-	-	-	-	-	-	5	-	-	8	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class B	65	3.34	-	-	-	-	2	5	7	-	2	1	6	19	3	3	5	11	1	-	-	-	-	-	-	-	-	-	
Time	23	3.46	-	-	-	-	-	-	-	-	-	-	3	12	-	1	2	5	-	-	-	-	-	-	-	-	-	-	
Incentive	42	3.27	-	-	-	-	2	5	7	-	2	1	3	7	3	2	3	6	1	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

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Table 12. Occupational earnings: Hartford—New Britain—Bristol, Conn.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																											
			Under \$2.20	\$2.20 and under \$2.30	\$2.30-\$2.40	\$2.40-\$2.50	\$2.50-\$2.60	\$2.60-\$2.70	\$2.70-\$2.80	\$2.80-\$2.90	\$2.90-\$3.00	\$3.00-\$3.10	\$3.10-\$3.20	\$3.20-\$3.30	\$3.30-\$3.40	\$3.40-\$3.50	\$3.50-\$3.60	\$3.60-\$3.80	\$3.80-\$4.00	\$4.00-\$4.20	\$4.20-\$4.40	\$4.40-\$4.60	\$4.60-\$4.80	\$4.80-\$5.00	\$5.00-\$5.20	\$5.20-\$5.40	\$5.40-\$5.60	\$5.60 and over		
Men—Continued																														
Machine-tool operators, production, class B ³ —Continued																														
Engine-lathe operators, class B-----	101	\$3.83	-	-	-	-	-	-	-	-	-	5	2	6	19	7	12	10	-	40	-	-	-	-	-	-	-	-	-	
Time-----	92	3.88	-	-	-	-	-	-	-	-	-	2	-	4	17	7	12	10	-	40	-	-	-	-	-	-	-	-	-	
Grinding-machine operators, class B ^{4a} /-----	1,004	3.86	-	3	-	-	-	11	1	18	32	36	56	60	40	50	69	64	277	268	8	4	6	-	-	-	1	-		
Milling-machine operators, class B-----	77	3.51	-	-	1	-	5	-	-	2	2	2	4	10	7	11	11	12	8	2	-	-	-	-	-	-	-	-		
Time-----	34	3.31	-	-	-	-	5	-	-	2	-	2	4	6	5	10	1	3	-	-	-	-	-	-	-	-	-	-		
Incentive-----	43	3.67	-	-	1	-	-	-	-	-	2	-	4	4	2	1	10	9	8	2	-	-	-	-	-	-	-	-		
Screw-machine operators, automatic, class B ^{4b} /-----	262	4.06	-	-	-	-	-	-	-	1	2	-	3	4	19	12	53	60	21	6	4	71	1	1	1	1	2	-		
Turret-lathe operators, hand (including hand screw machine), class B-----	95	3.51	-	-	-	-	-	-	-	-	3	15	4	17	12	10	18	15	-	1	-	-	-	-	-	-	-	-		
Time-----	61	3.39	-	-	-	-	-	-	-	-	2	15	4	16	7	8	9	-	-	-	-	-	-	-	-	-	-	-		
Incentive-----	34	3.73	-	-	-	-	-	-	-	-	1	-	-	1	5	2	9	15	-	1	-	-	-	-	-	-	-	-		
Machine-tool operators, production, class C ³ -----	490	3.49	-	1	-	-	2	30	31	18	11	16	37	41	29	62	21	45	45	53	26	8	8	2	1	3	-	-		
Time-----	180	3.04	-	-	-	-	2	26	29	15	5	13	20	28	3	33	1	5	-	-	-	-	-	-	-	-	-	-		
Incentive-----	310	3.75	-	1	-	-	-	4	2	3	6	3	17	13	26	29	20	40	45	53	26	8	8	2	1	3	-	-		
Drill-press operators, radial, class C ^{4a} /-----	28	3.08	-	-	-	-	10	-	-	-	2	-	-	6	-	2	2	-	-	-	-	-	-	-	-	-	-	-		
Drill-press operators, single- or multiple-spindle, class C-----	71	3.41	-	-	-	-	4	17	2	2	-	3	1	8	4	2	4	11	4	6	2	-	-	1	-	-	-	-		
Incentive-----	53	3.64	-	-	-	-	4	-	2	2	-	3	1	8	4	1	4	11	4	6	2	-	-	1	-	-	-	-		
Grinding-machine operators, class C-----	223	3.56	-	-	-	-	-	12	10	2	6	24	21	9	30	9	28	24	27	11	4	5	1	-	-	-	-	-		
Time-----	79	3.14	-	-	-	-	-	10	10	2	5	20	14	-	13	-	5	-	-	-	-	-	-	-	-	-	-	-		
Milling-machine operators, class C-----	81	3.52	-	1	-	-	2	6	1	6	5	3	5	4	5	6	5	8	2	8	5	2	3	1	-	3	-	-		
Time-----	22	2.83	-	-	-	-	2	6	1	5	3	2	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-		
Incentive-----	59	3.78	-	1	-	-	-	-	-	1	2	1	5	4	2	6	5	8	2	8	5	2	3	1	-	3	-	-		
Turret-lathe operators, hand (including hand screw machine), class C ^{4b} /-----	18	3.42	-	-	-	-	-	-	-	-	2	1	1	5	3	3	2	1	-	-	-	-	-	-	-	-	-	-		
Machine-tool operators, toolroom (operate one type of machine) (all timeworkers)-----	166	4.72	-	-	-	-	-	-	-	-	-	2	-	2	4	-	2	7	23	7	8	5	25	5	20	9	47	-		
Machine-tool operators, toolroom (operate more than one type of machine)-----	251	4.29	-	-	-	-	-	-	-	-	6	1	15	2	4	10	35	62	23	18	1	5	-	-	-	69	-	-		
Time-----	230	4.32	-	-	-	-	-	-	-	-	6	1	15	2	4	10	33	53	15	16	1	5	-	-	-	69	-	-		
Machinists, maintenance (all timeworkers)-----	249	4.81	-	-	-	-	-	-	-	-	-	-	-	2	16	-	18	34	7	32	-	1	-	-	-	-	139	-		
Machinists, production-----	66	3.65	-	-	-	-	-	-	-	5	-	-	5	5	-	5	15	14	7	-	5	-	-	-	-	-	-	-		
Time-----	60	3.61	-	-	-	-	-	-	-	5	-	-	5	5	-	5	15	12	3	-	5	-	-	-	-	-	-	-		
Mechanics, maintenance (all timeworkers)-----	17	3.77	-	-	-	-	-	-	-	-	-	4	2	-	1	-	-	5	-	4	1	-	-	-	-	-	-	-		
Polishing- and buffing-machine operators-----	83	3.57	-	-	-	-	-	5	-	-	2	20	2	5	12	4	5	10	9	5	2	1	1	-	-	-	-	-		
Incentive-----	46	3.82	-	-	-	-	-	-	-	-	-	1	2	5	6	4	5	9	5	2	1	1	-	-	-	-	-	-		
Punch-press operators, class B-----	67	3.60	-	1	2	1	2	3	2	6	-	1	1	1	4	2	3	11	1	19	2	3	-	-	1	1	-	-		
Time-----	27	3.62	-	-	-	-	2	1	1	6	-	-	-	-	-	-	1	-	16	-	-	-	-	-	-	-	-	-		
Set-up men, machine tools-----	555	4.00	-	-	-	-	-	1	-	-	-	-	5	13	11	46	110	155	11	168	6	29	-	-	-	-	-	-		
Time-----	524	4.00	-	-	-	-	-	1	-	-	-	-	5	13	11	44	104	143	1	167	6	29	-	-	-	-	-	-		
Tool and diemakers (jobbing) (all timeworkers)-----	361	4.20	-	-	-	-	-	11	-	-	-	-	22	-	17	9	9	24	56	63	44	66	5	35	-	-	-	-		
Tool and diemakers (other than jobbing)-----	382	4.51	-	-	-	-	-	-	-	-	-	-	1	-	6	-	27	13	65	158	7	23	4	-	-	-	-	578		
Time-----	365	4.53	-	-	-	-	-	-	-	-	-	-	-	6	-	27	12	61	149	5	23	4	-	-	-	-	-	78		

See footnotes at end of table.

Table 12. Occupational earnings: Hartford—New Britain—Bristol, Conn.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			Under \$2.20	\$2.20 and under \$2.30	\$2.30-\$2.40	\$2.40-\$2.50	\$2.50-\$2.60	\$2.60-\$2.70	\$2.70-\$2.80	\$2.80-\$2.90	\$2.90-\$3.00	\$3.00-\$3.10	\$3.10-\$3.20	\$3.20-\$3.30	\$3.30-\$3.40	\$3.40-\$3.50	\$3.50-\$3.60	\$3.60-\$3.80	\$3.80-\$4.00	\$4.00-\$4.20	\$4.20-\$4.40	\$4.40-\$4.60	\$4.60-\$4.80	\$4.80-\$5.00	\$5.00-\$5.20	\$5.20-\$5.40	\$5.40-\$5.60	\$5.60 and over	
Men—Continued																													
Tool clerks.....	116	\$3.49	-	-	-	2	-	-	15	11	10	26	-	1	2	1	3	1	34	10	-	-	-	-	-	-	-	-	-
Time.....	114	3.49	-	-	-	2	-	-	15	11	10	26	-	1	-	1	3	1	34	10	-	-	-	-	-	-	-	-	
Welders, hand, class A.....	104	4.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	29	41	5	1	-	-	-	2	-	15	-	
Time.....	80	4.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	27	25	5	1	-	-	-	2	-	15	-	
Welders, hand, class B.....	32	3.60	-	-	-	-	-	-	-	-	6	-	2	2	4	6	2	2	4	3	1	-	-	-	-	-	-	-	
Time.....	18	3.34	-	-	-	-	-	-	-	-	6	-	2	-	4	4	2	-	-	-	-	-	-	-	-	-	-	-	
Incentive.....	14	3.95	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	2	4	3	1	-	-	-	-	-	-	-	
Women																													
Assemblers, class C.....	893	3.42	3	-	-	3	19	227	79	53	14	17	20	11	24	17	32	24	348	1	-	-	1	-	-	-	-	-	-
Incentive.....	512	3.08	3	-	-	-	17	193	79	30	14	17	20	11	24	17	32	24	29	1	-	-	1	-	-	-	-	-	-
Inspectors, class B (all timeworkers).....	16	2.82	-	-	8	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class C (all timeworkers).....	484	3.17	-	25	-	14	26	14	165	70	11	17	14	-	-	-	-	-	128	-	-	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners (all timeworkers).....	15	2.76	-	-	-	1	-	10	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production class B ^{3 4a/}	39	3.08	-	-	-	-	6	6	6	7	-	1	1	-	4	-	4	4	-	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class B ^{4a/}	33	3.17	-	-	-	-	-	6	6	7	-	1	1	-	4	-	4	4	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class C ^{3 4b/}	177	2.98	15	13	19	1	2	1	9	5	9	21	16	12	11	16	9	10	5	1	1	1	-	-	-	-	-	-	-
Milling-machine operators, class C ^{4b/}	22	3.10	-	-	6	-	-	-	1	1	-	1	-	3	1	3	1	4	-	1	-	-	-	-	-	-	-	-	-
Punch-press operators, class B.....	290	3.75	2	-	1	-	8	4	3	4	19	11	13	9	12	9	20	11	158	5	1	-	-	-	-	-	-	-	-
Incentive.....	135	3.34	2	-	1	-	8	4	3	4	19	11	13	9	12	9	20	11	3	5	1	-	-	-	-	-	-	-	-

¹ The area consists of Andover, Avon, Berlin, Bloomfield, Bolton, Bristol, Canton, Coventry, Cromwell, East Granby, East Hartford, East Windsor, Ellington, Enfield, Farmington, Glastonbury, Granby, Hartford, Manchester, New Britain, Newington, Plainville, Rocky Hill, Simsbury, Southington, South Windsor, Suffield, Vernon, West Hartford, Wethersfield, Windsor, and Windsor Locks, Connecticut.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

³ Includes data for operators of other machine tools in addition to those shown separately.

⁴ Insufficient data to warrant publication of separate averages by method of wage payment; (a) predominantly timeworkers, or (b) predominantly incentive workers.

⁵ All workers were at \$5.60 to \$5.80.

Table 13. Occupational earnings: Houston, Tex.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation ³	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																												
			Under \$2.00	\$2.00 and under \$2.10	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	and over			
Assemblers, class A (all timeworkers)	403	\$3.80	-	-	-	-	-	-	-	-	-	-	3	-	-	6	-	36	43	49	60	117	42	47	-	-	-	-	-		
Assemblers, class B	460	3.21	-	3	-	3	-	6	50	12	29	16	14	57	28	38	8	25	60	13	63	29	6	-	-	-	-	-	-		
Time	455	3.21	-	3	-	3	-	6	50	12	29	16	14	57	27	37	5	25	60	13	63	29	6	-	-	-	-	-	-		
Assemblers, class C	85	2.89	-	-	3	5	3	2	2	2	6	17	3	-	29	9	4	-	-	-	-	-	-	-	-	-	-	-	-		
Time	50	2.73	-	-	3	5	3	2	2	2	6	15	3	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Electricians, maintenance (all timeworkers)	143	4.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	27	36	29	48	-	-	-		
Inspectors, class A	336	4.02	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	6	11	120	36	78	18	54	-	-	-	-	-	10	
Time	275	4.08	-	-	-	-	-	-	-	-	-	-	-	-	2	-	4	10	63	36	78	18	54	-	-	-	-	-	-	10	
Inspectors, class B	177	3.74	-	-	-	-	-	-	-	-	-	6	6	9	1	10	17	5	4	5	101	3	5	5	-	-	-	-	-	-	
Time	157	3.78	-	-	-	-	-	-	-	-	-	6	6	8	-	4	5	5	4	5	101	3	5	5	-	-	-	-	-	-	
Janitors, porters, and cleaners (all timeworkers)	286	2.61	18	38	29	-	39	2	3	11	69	32	15	2	13	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	
Laborers, material handling	228	2.90	3	3	-	3	14	6	9	10	27	38	10	22	18	59	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	217	2.90	3	3	-	3	14	6	9	10	27	38	-	22	18	59	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class A ⁴	1,857	3.86	-	-	-	-	-	-	-	-	-	4	8	4	14	18	15	32	114	181	238	643	542	44	-	-	-	-	-	-	
Time	1,723	3.87	-	-	-	-	-	-	-	-	-	4	8	2	14	16	10	22	76	170	214	600	542	44	-	-	-	-	-	-	-
Automatic-lathe operators, class A	279	3.81	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	33	11	42	152	30	3	-	-	-	-	-	-	-	
Time	233	3.83	-	-	-	-	-	-	-	-	-	-	-	-	2	3	26	5	35	129	30	3	-	-	-	-	-	-	-	-	
Drill-press operators, radial, class A	93	3.83	-	-	-	-	-	-	-	-	-	-	-	-	2	4	4	2	15	5	47	14	-	-	-	-	-	-	-	-	
Time	83	3.89	-	-	-	-	-	-	-	-	-	-	-	-	2	4	2	15	5	47	14	-	-	-	-	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class A (all timeworkers)	81	3.63	-	-	-	-	-	-	-	-	-	-	-	-	13	4	5	8	10	4	37	-	-	-	-	-	-	-	-	-	
Engine-lathe operators, class A	234	3.89	-	-	-	-	-	-	-	-	2	8	-	2	-	-	1	1	17	10	87	100	6	-	-	-	-	-	-	-	
Time	222	3.90	-	-	-	-	-	-	-	-	2	8	-	2	-	-	-	17	10	77	100	6	-	-	-	-	-	-	-	-	
Grinding-machine operators, class A (all timeworkers)	132	3.85	-	-	-	-	-	-	-	-	-	-	-	-	2	2	6	10	17	15	50	12	18	-	-	-	-	-	-	-	
Milling-machine operators, class A	260	3.82	-	-	-	-	-	-	-	-	-	-	-	4	-	1	2	4	29	36	39	86	47	12	-	-	-	-	-	-	
Time	238	3.85	-	-	-	-	-	-	-	-	-	-	-	2	-	1	2	4	9	36	39	86	47	12	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class A	449	3.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	15	26	104	152	146	-	-	-	-	-	-	-	
Time	405	3.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5	21	87	143	146	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class B ⁴	1,146	3.52	-	-	3	-	3	-	15	53	14	-	23	19	49	89	121	146	107	425	61	18	-	-	-	-	-	-	-	-	
Time	1,034	3.53	-	-	3	-	3	-	15	53	14	-	18	16	39	55	89	141	84	425	61	18	-	-	-	-	-	-	-	-	-
Automatic-lathe operators, class B	104	3.58	-	-	-	-	-	-	-	-	-	-	-	3	3	15	18	9	3	50	3	-	-	-	-	-	-	-	-	-	
Time	98	3.59	-	-	-	-	-	-	-	-	-	-	-	2	14	15	9	3	50	3	-	-	-	-	-	-	-	-	-	-	
Drill-press operators, radial, class B	64	3.26	-	-	-	-	-	-	-	-	13	-	4	2	14	10	3	6	4	5	3	-	-	-	-	-	-	-	-	-	
Time	48	3.28	-	-	-	-	-	-	-	-	13	-	-	11	3	3	6	4	5	3	-	-	-	-	-	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class B	110	3.46	-	-	-	-	-	-	-	5	-	-	6	1	7	30	3	11	-	42	-	-	-	-	-	-	-	-	-	-	
Time	82	3.50	-	-	-	-	-	-	-	5	-	-	5	1	4	6	3	16	-	42	-	-	-	-	-	-	-	-	-	-	
Engine-lathe operators, class B	122	3.45	-	-	-	-	-	-	2	16	8	-	2	2	3	4	4	4	13	68	-	-	-	-	-	-	-	-	-	-	
Time	118	3.45	-	-	-	-	-	-	2	16	8	-	-	2	2	3	-	4	13	68	-	-	-	-	-	-	-	-	-	-	
Grinding-machine operators, class B	187	3.65	-	-	-	-	-	-	-	-	-	-	-	1	2	8	9	21	28	116	2	-	-	-	-	-	-	-	-	-	
Time	159	3.65	-	-	-	-	-	-	-	-	-	-	-	1	2	8	9	16	5	116	2	-	-	-	-	-	-	-	-	-	
Milling-machine operators, class B	100	3.54	-	-	-	-	-	-	-	4	-	-	-	-	3	8	20	16	2	47	-	-	-	-	-	-	-	-	-	-	
Time	89	3.55	-	-	-	-	-	-	-	4	-	-	-	-	2	6	12	16	2	47	-	-	-	-	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class B	166	3.44	-	-	-	-	-	-	13	6	6	-	-	4	2	2	23	47	9	52	2	-	-	-	-	-	-	-	-	-	
Time	147	3.44	-	-	-	-	-	-	13	6	6	-	-	4	-	2	6	47	9	52	2	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 13. Occupational earnings: Houston, Tex.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation ³	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			Under \$2.00	\$2.00 and under \$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80		
																												and over
Machine-tool operators, production, class C ⁴	260	\$3.02	-	3	9	-	5	5	23	20	2	13	11	30	28	36	45	3	27	-	-	-	-	-	-	-	-	
Time.....	229	3.00	-	3	9	-	5	5	23	20	2	12	6	30	15	35	34	3	27	-	-	-	-	-	-	-	-	
Drill-press operators, radial, class C.....	13	2.68	-	-	3	-	-	-	4	-	-	-	4	-	1	-	1	-	-	-	-	-	-	-	-	-	-	
Time.....	8	2.47	-	-	3	-	-	-	4	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
Engine-lathe operators, class C (all timeworkers).....	33	2.88	-	-	-	-	-	-	12	4	-	-	-	4	-	13	-	-	-	-	-	-	-	-	-	-	-	
Grinding-machine operators, class C.....	45	3.25	-	-	-	-	-	-	-	-	-	1	-	4	14	-	21	-	5	-	-	-	-	-	-	-	-	
Time.....	34	3.30	-	-	-	-	-	-	-	-	-	-	-	4	4	-	21	-	5	-	-	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw machine) (all timeworkers).....	30	3.19	-	-	-	-	-	-	2	-	-	-	-	4	2	13	9	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, toolroom (operate one type of machine) (all timeworkers).....	46	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	16	28	-	-	-	-	
Machine-tool operators, toolroom (operate more than one type of machine) (all timeworkers).....	210	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	7	49	139	6	4	-	-	
Machinists, maintenance (all timeworkers).....	126	4.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	2	22	59	5	32	-	
Machinists, production (all timeworkers).....	1,172	4.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	2	22	59	5	32	-	
Mechanics, maintenance (all timeworkers).....	186	4.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3	3	357	308	397	7	-	-	
Polishing- and buffing-machine operators (all timeworkers).....	44	4.08	-	-	-	5	-	-	-	-	-	-	-	10	2	13	-	-	2	-	8	4	-	-	-	-	-	
Tool and diemakers (other than jobbing) (all timeworkers).....	117	4.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	12	35	7	59	-	
Tool clerks.....	137	3.46	-	-	-	-	-	6	2	2	5	-	13	8	6	11	10	8	9	17	36	4	-	-	-	-	-	
Time.....	125	3.45	-	-	-	-	-	6	2	2	5	-	13	7	6	3	10	8	9	17	33	4	-	-	-	-	-	
Welders, hand, class A.....	598	4.00	-	-	-	-	-	-	-	-	-	-	-	-	15	10	-	5	7	23	12	213	165	64	84	-	-	
Time.....	574	4.01	-	-	-	-	-	-	-	-	-	-	-	-	15	10	-	5	7	9	12	207	162	63	84	-	-	
Welders, hand, class B.....	278	3.59	-	-	-	-	-	-	-	2	5	-	17	4	9	2	20	39	37	81	62	-	-	-	-	-	-	-
Time.....	257	3.59	-	-	-	-	-	-	-	2	5	-	17	4	9	2	20	39	37	81	62	-	-	-	-	-	-	-
Welders, machine, class B (all timeworkers).....	94	2.74	-	12	6	3	3	9	-	6	9	3	12	12	3	6	-	-	6	-	-	4	-	-	-	-	-	-

¹ The Houston Standard Metropolitan Statistical Area consists of Harris, Fort Bend, Brazoria, Montgomery, and Liberty Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

³ Data limited to men workers.

⁴ Includes data for operators of other machine tools in addition to those shown separately.

Table 14. Occupational earnings: Los Angeles—Long Beach and Anaheim—Santa Ana—Garden Grove, Calif.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																								
			\$1.60	\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.40
			and under																								and over
Men																											
Assemblers, class A.....	903	\$3.90	-	-	-	-	-	-	-	-	2	2	4	2	3	39	16	89	191	215	100	160	64	16	-	-	-
Assemblers, class B.....	665	3.16	-	-	-	-	-	14	18	25	31	5	27	37	119	89	120	20	115	32	6	7	-	-	-	-	-
Assemblers, class C.....	573	2.63	11	23	34	61	38	26	46	23	11	1	38	17	45	98	81	5	9	6	-	-	-	-	-	-	-
Carpenters, maintenance.....	37	4.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	4	8	22	-	-	-	-
Electricians, maintenance.....	100	4.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	39	5	31	17	6	-	-
Inspectors, class A.....	459	4.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	11	22	98	158	78	39	28	13	9	-
Inspectors, class B.....	186	3.61	-	-	-	-	-	-	-	1	1	5	-	4	16	20	27	59	15	31	7	-	-	-	-	-	-
Inspectors, class C.....	85	2.75	-	-	-	-	35	-	-	2	1	12	3	-	8	8	5	7	4	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners.....	411	2.70	-	11	-	33	10	2	14	10	20	47	77	81	54	30	9	7	6	-	-	-	-	-	-	-	-
Laborers, material handling.....	171	3.16	-	-	-	-	22	-	-	-	-	1	4	12	9	32	24	43	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class A ³	3,471	4.16	-	-	-	-	-	-	-	-	-	-	-	-	6	4	87	207	324	500	934	583	484	50	85	149	58
Automatic-lathe operators, class A.....	148	4.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	11	50	16	16	-	-	-	50	-	-
Drill-press operators, radial, class A.....	137	3.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	27	43	30	22	2	5	-	2	2	2
Drill-press operators, single- or multiple-spindle, class A.....	102	3.56	-	-	-	-	-	-	-	-	-	-	-	4	-	26	38	17	9	8	-	-	-	-	-	-	-
Engine-lathe operators, class A.....	637	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	83	105	133	201	53	12	31	10	8	-
Grinding-machine operators, class A.....	793	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9	31	102	96	180	75	279	3	2	2	10
Milling-machine operators, class A.....	358	4.05	-	-	-	-	-	-	-	-	-	-	-	-	1	-	28	71	29	56	77	23	15	3	30	21	4
Screw-machine operators, automatic, class A.....	100	4.14	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	57	26	15	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class A.....	598	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	17	32	24	86	280	80	36	21	10	-	12	-
Machine-tool operators, production, class B ³	1,526	3.51	-	-	-	-	-	-	-	-	-	1	8	41	181	350	389	314	70	126	39	3	2	2	-	-	-
Automatic-lathe operators, class B.....	75	3.50	-	-	-	-	-	-	-	-	-	-	-	-	10	10	41	10	1	3	-	-	-	-	-	-	-
Drill-press operators, radial, class B.....	94	3.43	-	-	-	-	-	-	-	-	-	-	-	-	1	60	17	4	9	3	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class B.....	187	3.24	-	-	-	-	-	-	-	-	-	-	5	18	54	56	39	10	5	-	-	-	-	-	-	-	-
Engine-lathe operators, class B.....	174	3.58	-	-	-	-	-	-	-	-	-	-	-	-	3	103	64	3	1	-	-	-	-	-	-	-	-
Grinding-machine operators, class B.....	134	3.36	-	-	-	-	-	-	-	-	-	-	1	-	31	55	21	15	5	6	-	-	-	-	-	-	-
Milling-machine operators, class B.....	197	3.36	-	-	-	-	-	-	-	-	-	-	-	23	53	40	20	44	11	6	-	-	-	-	-	-	-
Screw-machine operators, automatic, class B.....	74	3.88	-	-	-	-	-	-	-	-	-	-	-	-	-	10	20	2	3	3	36	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class B.....	223	3.52	-	-	-	-	-	-	-	-	-	-	3	-	30	66	50	36	20	14	-	-	2	2	-	-	-
Machine-tool operators, production, class C ³	588	2.60	-	60	10	60	10	10	-	42	45	51	83	45	15	124	19	11	3	-	-	-	-	-	-	-	-
Drill-press operators, radial, class C.....	7	2.96	-	-	-	-	-	-	-	-	3	-	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class C.....	211	2.31	-	60	-	25	-	10	-	42	10	22	1	26	9	3	3	-	-	-	-	-	-	-	-	-	-
Engine-lathe operators, class C.....	23	2.84	-	-	-	-	-	-	-	-	-	3	14	-	-	2	4	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class C.....	94	2.34	-	-	10	35	10	-	-	-	-	-	36	-	-	-	2	1	-	-	-	-	-	-	-	-	-
Milling-machine operators, class C.....	18	3.08	-	-	-	-	-	-	-	-	-	1	3	1	-	10	-	1	2	-	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class C.....	29	2.96	-	-	-	-	-	-	-	-	7	-	7	-	-	4	7	4	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 14. Occupational earnings: Los Angeles—Long Beach and Anaheim—Santa Ana—Garden Grove, Calif.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$1.60	\$1.70	\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.40
			and under	under	under	under	under	under	under	under	under	under	under	under	under	under	under	under	under	under	under	under	under	under	under	under	under	under
Men—Continued																												
Machine-tool operators, toolroom (operate one type of machine)	373	\$4.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	3	5	17	23	123	141	50	3
Machine-tool operators, toolroom (operate more than one type of machine)	276	4.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	14	34	85	41	39	-	60
Machinists, maintenance	96	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	-	32	19	5	9	6	-
Machinists, production	894	4.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	17	30	287	336	156	57	4
Mechanics, maintenance	83	4.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	11	22	36	5	2
Polishing- and buffing-machine operators	54	3.28	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	1	20	3	3	-	-	-
Punch-press operators, class A	108	3.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	12	69	10	16	-	-	-	-	-	-	-
Punch-press operators, class B	223	2.86	-	-	-	-	-	44	-	-	-	10	10	2	2	2	113	37	3	-	-	-	-	-	-	-	-	-
Set-up men, machine tools	22	4.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	11	2
Tool and diemakers (jobbing)	1,004	4.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	58	81	43	176	184
Tool and diemakers (other than jobbing)	270	4.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	18	5	49	19	34	95	39
Tool clerks	140	3.26	-	-	-	-	-	-	-	-	10	-	8	1	-	-	17	63	19	14	8	-	-	-	-	-	-	-
Welders, hand, class A	824	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85	103	201	123	150	82	12	52	6	
Welders, hand, class B	246	3.58	-	-	-	-	-	-	-	-	-	-	2	26	-	-	35	9	22	17	92	35	4	2	2	2	-	
Welders, machine, class A	218	4.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	14	2	35	129	-	25	-	
Welders, machine, class B	159	3.49	-	-	-	-	-	-	-	-	22	-	-	-	-	-	-	-	42	-	17	78	-	-	-	-	-	-
Women																												
Assemblers, class A	238	3.18	-	-	-	-	-	-	-	-	-	4	12	10	20	17	63	48	36	25	3	-	-	-	-	-	-	-
Assemblers, class B	676	2.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Assemblers, class C	1,669	2.20	24	35	77	169	251	310	366	91	160	45	35	5	70	4	27	4	5	3	-	-	-	-	-	-	-	-
Inspectors, class A	31	3.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class B	122	3.11	-	-	-	-	-	-	-	-	-	3	20	7	7	3	40	13	9	20	-	-	-	-	-	-	-	-
Inspectors, class C	191	2.58	-	-	-	-	-	1	30	59	15	31	1	3	-	20	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class A	7	3.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	3	-	-	2	-	-	-	-	-
Punch-press operators, class B	48	2.74	-	-	-	-	-	-	-	-	1	2	2	32	10	-	-	1	-	-	-	-	-	-	-	-	-	-
Tool clerks	6	3.21	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	4	-	-	-	-	-	-	-	-	-	-

¹ The Los Angeles—Long Beach and Anaheim—Santa Ana—Garden Grove Standard Metropolitan Statistical Areas consist of Los Angeles and Orange Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

³ Includes data for operators of other machine tools in addition to those shown separately.

Table 15. Occupational earnings: Milwaukee, Wis.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1971)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80
			and under \$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	and over
Men																												
Assemblers, class A.....	1,134	\$4.50	-	-	-	-	-	-	-	-	-	-	-	-	-	4	127	90	105	178	229	98	137	42	55	21	8	40
Time.....	655	4.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127	89	92	148	140	28	16	-	11	-	-	-
Incentive.....	479	4.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	13	30	89	70	121	42	44	21	8	40
Assemblers, class B.....	1,386	4.03	-	-	-	-	11	-	-	-	13	5	48	38	163	112	106	230	97	321	86	34	37	19	35	29	2	-
Time.....	862	3.76	-	-	-	-	11	-	-	-	11	-	46	34	156	108	85	201	75	90	45	-	-	-	-	-	-	
Incentive.....	524	4.47	-	-	-	-	-	-	-	-	2	5	2	4	7	4	21	29	22	231	41	34	37	19	35	29	2	-
Assemblers, class C.....	527	3.73	-	-	-	-	4	16	12	22	19	13	49	95	28	79	34	40	24	55	17	2	11	1	4	1	1	
Time.....	322	3.52	-	-	-	-	-	-	-	-	14	15	13	49	95	26	63	25	22	-	-	-	-	-	-	-	-	
Incentive.....	205	4.07	-	-	-	-	4	16	12	8	4	-	-	-	2	16	9	18	24	55	17	2	11	1	4	1	1	
Carpenters, maintenance.....	18	4.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	8	2	1	1	-	-	-	-	
Time.....	10	4.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	2	1	1	-	-	-	-	
Electricians, maintenance.....	224	4.56	-	-	-	-	-	-	-	-	-	-	-	-	-	4	10	27	56	34	21	22	47	1	-	-	1	
Time.....	202	4.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	27	56	23	15	22	47	1	-	-	1	
Inspectors, class A.....	627	4.26	-	-	-	-	-	-	-	-	-	1	-	11	26	44	80	135	107	124	51	12	28	4	3	1	-	
Time.....	604	4.25	-	-	-	-	-	-	-	-	-	1	-	11	26	44	80	135	101	107	51	12	28	4	3	1	-	
Inspectors, class B.....	425	3.92	-	-	-	-	-	-	-	-	-	-	16	73	8	30	45	186	64	2	1	-	-	-	-	-	-	
Time.....	398	3.89	-	-	-	-	-	-	-	-	-	-	16	73	8	30	45	185	38	2	1	-	-	-	-	-	-	
Inspectors, class C.....	106	3.57	-	-	1	-	-	3	-	-	3	24	-	2	11	34	22	5	1	-	-	-	-	-	-	-	-	
Time.....	100	3.54	-	-	1	-	-	3	-	-	3	24	-	2	11	34	20	2	-	-	-	-	-	-	-	-	-	
Janitors, porters, and cleaners.....	412	3.33	-	-	5	3	-	13	29	40	23	48	40	51	127	25	8	-	-	-	-	-	-	-	-	-	-	
Time.....	392	3.32	-	-	5	3	-	13	29	40	23	48	39	43	117	24	8	-	-	-	-	-	-	-	-	-	-	
Laborers, material handling.....	873	3.32	48	-	-	-	11	47	37	13	39	7	120	67	50	272	123	23	16	-	-	-	-	-	-	-	-	
Time.....	858	3.31	48	-	-	-	11	47	37	13	39	7	120	67	48	271	113	21	16	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class A ³	3,134	4.51	-	-	-	-	-	-	-	-	1	8	9	38	19	109	350	299	483	542	436	262	254	167	85	40	32	
Time.....	1,635	4.31	-	-	-	-	-	-	-	-	-	1	3	25	5	68	298	227	319	228	289	81	91	-	-	-	-	
Incentive.....	1,499	4.73	-	-	-	-	-	-	-	-	1	7	6	13	14	41	52	72	164	314	147	181	163	167	85	40	32	
Automatic-lathe operators, class A.....	149	4.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	16	17	20	28	21	26	15	1	-		
Time.....	78	4.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	12	10	16	8	21	-	-	-		
Incentive.....	71	4.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	10	12	13	5	15	1		
Drill-press operators, radial, class A.....	240	4.32	-	-	-	-	-	-	-	-	1	-	2	8	1	4	65	22	38	33	15	19	17	10	4	1	-	
Time.....	112	4.05	-	-	-	-	-	-	-	-	-	-	6	-	-	56	14	14	12	10	-	-	-	-	-	-		
Incentive.....	128	4.56	-	-	-	-	-	-	-	-	1	-	2	2	1	4	9	8	24	21	5	19	17	10	4	1	-	
Drill-press operators, single- or multiple-spindle, class A.....	130	4.69	-	-	-	-	-	-	-	-	-	3	-	2	3	6	4	17	47	10	7	-	3	10	9	9		
Time.....	101	4.77	-	-	-	-	-	-	-	-	-	-	2	3	6	4	15	27	6	7	-	3	10	9	9	-		
Engine-lathe operators, class A.....	352	4.43	-	-	-	-	-	-	-	-	-	-	2	3	10	38	41	76	52	81	17	12	7	6	5	2		
Time.....	250	4.34	-	-	-	-	-	-	-	-	-	-	-	6	36	30	59	46	64	8	1	-	-	-	-	-		
Incentive.....	102	4.66	-	-	-	-	-	-	-	-	-	-	2	3	4	2	11	17	6	17	9	11	7	6	5	2		
Grinding-machine operators, class A.....	242	4.59	-	-	-	-	-	-	-	-	-	-	-	6	32	5	23	69	41	26	19	15	3	-	3	-		
Time.....	118	4.37	-	-	-	-	-	-	-	-	-	-	-	6	30	-	14	28	32	8	-	-	-	-	-	-		
Incentive.....	124	4.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	9	41	9	18	19	15	3		
Milling-machine operators, class A.....	313	4.42	-	-	-	-	-	-	-	-	2	1	4	5	25	23	10	83	67	20	31	21	11	9	-	1		
Time.....	161	4.19	-	-	-	-	-	-	-	-	-	1	-	3	4	20	17	-	67	38	6	4	1	-	-	-		
Incentive.....	152	4.66	-	-	-	-	-	-	-	-	-	1	1	1	1	5	6	10	16	29	14	27	20	11	9	-		
Screw-machine operators, automatic, class A.....	172	4.66	-	-	-	-	-	-	-	-	-	-	-	1	3	4	11	6	29	52	37	26	3	-	-	-		
Time.....	144	4.70	-	-	-	-	-	-	-	-	-	-	-	1	-	9	6	22	47	33	26	-	-	-	-	-		
Incentive.....	28	4.48	-	-	-	-	-	-	-	-	-	-	-	-	3	4	2	-	7	5	4	-	3	-	-	-		
Turret-lathe operators, hand (including hand screw machine), class A.....	586	4.34	-	-	-	-	-	-	-	-	-	6	2	20	7	54	71	73	77	94	91	21	22	30	9	8	1	
Time.....	268	4.11	-	-	-	-	-	-	-	-	-	-	-	-	12	-	33	56	55	49	17	46	-	-	-	-		
Incentive.....	318	4.54	-	-	-	-	-	-	-	-	-	6	2	8	7	21	15	18	28	77	45	21	22	30	9	8	1	

See footnotes at end of table.

Table 15. Occupational earnings: Milwaukee, Wis.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1971)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80
			and under \$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	and over
Men—Continued																												
Machine-tool operators, production, class B ³	2,371	\$4.07	-	-	3	-	-	13	7	16	51	22	38	84	200	72	323	221	264	396	328	129	80	64	33	9	11	7
Time	1,322	3.88	-	-	3	-	-	11	-	11	35	12	3	67	174	44	246	165	171	186	176	16	2	-	-	-	-	-
Incentive	1,049	4.31	-	-	-	-	-	2	7	5	16	10	35	17	26	28	77	56	93	210	152	113	78	64	33	9	11	7
Automatic-lathe operators, class B	107	3.99	-	-	-	-	-	-	-	1	-	-	4	6	5	1	7	35	9	27	8	1	1	2	-	-	-	-
Time	48	3.99	-	-	-	-	-	-	-	-	-	-	-	-	-	3	27	8	6	4	-	-	-	-	-	-	-	-
Incentive	59	3.99	-	-	-	-	-	-	-	1	-	-	4	6	5	1	4	8	1	21	4	1	1	2	-	-	-	-
Drill-press operators, radial, class B	345	3.92	-	-	-	-	-	-	-	11	1	12	3	16	60	10	69	8	14	59	50	21	3	3	3	-	2	-
Time	225	3.74	-	-	-	-	-	-	-	11	-	11	-	12	57	8	61	4	4	19	36	2	-	-	-	-	-	-
Incentive	120	4.27	-	-	-	-	-	-	-	-	1	1	3	4	3	2	8	4	10	40	14	19	3	3	3	-	2	-
Drill-press operators, single- or multiple-spindle, class B	264	4.06	-	-	-	-	-	-	-	4	1	5	10	3	17	7	27	21	64	60	20	13	7	1	3	-	1	-
Time	119	4.00	-	-	-	-	-	-	-	-	-	1	3	-	9	-	20	12	34	36	4	-	-	-	-	-	-	-
Incentive	145	4.10	-	-	-	-	-	-	-	4	1	4	7	3	8	7	7	9	30	24	16	13	7	1	3	-	1	-
Engine-lathe operators, class B	135	4.07	-	-	-	-	-	-	-	-	-	-	3	1	12	4	42	3	9	24	17	7	10	2	1	-	-	-
Time	73	3.85	-	-	-	-	-	-	-	-	-	-	-	-	12	-	39	-	4	12	4	2	-	-	-	-	-	-
Incentive	62	4.33	-	-	-	-	-	-	-	-	-	-	3	1	-	4	3	3	5	12	13	5	10	2	-	1	-	-
Grinding-machine operators, class B	299	4.22	-	-	-	-	2	5	-	-	-	10	10	17	6	18	26	37	50	56	18	15	14	7	2	3	3	3
Time	117	4.03	-	-	-	-	-	-	-	-	-	-	7	13	4	7	14	26	18	28	8	-	-	-	-	-	-	-
Incentive	182	4.35	-	-	-	-	2	5	-	-	-	-	10	3	4	2	11	12	11	32	28	18	15	14	7	2	3	3
Milling-machine operators, class B	301	3.93	-	-	-	-	11	-	-	-	11	1	-	48	11	1	47	11	48	49	42	10	5	6	-	-	-	-
Time	244	3.84	-	-	-	-	11	-	-	-	11	-	-	48	11	-	38	8	43	34	36	4	-	-	-	-	-	-
Incentive	57	4.34	-	-	-	-	-	-	-	-	-	1	-	-	-	1	9	3	5	15	6	5	6	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class B	311	3.98	-	-	-	-	-	-	-	-	26	4	-	-	39	34	59	23	21	27	31	9	9	11	10	3	3	2
Time	169	3.63	-	-	-	-	-	-	-	-	24	-	-	-	35	26	48	14	6	2	14	-	-	-	-	-	-	-
Incentive	142	4.39	-	-	-	-	-	-	-	-	2	4	-	-	4	8	11	9	15	25	17	9	9	11	10	3	3	2
Machine-tool operators, production, class C ³	306	3.39	-	-	26	-	4	22	39	26	21	12	30	39	2	16	3	13	36	4	7	1	4	1	-	-	-	-
Time	162	3.35	-	-	22	-	-	-	26	18	12	4	16	14	-	14	2	8	24	2	-	-	-	-	-	-	-	-
Automatic-lathe operators, class C ⁴ b/	13	3.73	-	-	4	-	-	-	-	-	-	-	-	-	-	4	-	1	-	1	-	1	1	1	-	-	-	-
Drill-press operators, radial, class C ⁴ a/	73	3.59	-	-	-	-	12	8	12	-	-	-	6	-	1	-	-	8	24	2	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class C	49	2.95	-	-	22	-	2	1	-	9	-	1	12	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-
Time	41	2.87	-	-	22	-	-	-	-	8	-	8	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class C ⁴ a/	18	3.81	-	-	-	-	-	-	-	-	4	4	2	-	-	-	-	3	1	-	2	-	2	-	-	-	-	-
Milling-machine operators, class C	23	3.79	-	-	-	-	4	-	-	-	-	-	4	2	1	-	1	-	8	-	3	-	-	-	-	-	-	-
Incentive	17	3.93	-	-	-	-	4	-	-	-	-	-	-	-	1	-	1	-	8	-	3	-	-	-	-	-	-	-
Machine-tool operators, toolroom (operate one type of machine)	245	4.51	-	-	-	-	-	-	-	-	-	-	-	2	10	17	37	26	17	18	42	29	18	11	6	4	8	8
Time	227	4.44	-	-	-	-	-	-	-	-	-	-	-	2	10	17	37	23	17	15	42	28	17	11	6	2	-	-
Machine-tool operators, toolroom (operate more than one type of machine)	309	4.55	-	-	-	-	-	-	-	-	-	-	-	-	-	4	32	50	14	59	64	26	33	19	8	-	-	-
Time	289	4.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	37	12	58	64	26	33	19	8	-	-	-
Machinists, maintenance	102	4.38	-	-	-	-	-	-	-	-	-	-	-	-	-	1	22	24	13	10	9	7	13	2	1	-	-	-
Time	90	4.38	-	-	-	-	-	-	-	-	-	-	-	-	-	1	22	24	5	7	8	7	13	2	1	-	-	-
Mechanics, maintenance (all timeworkers)	192	4.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	16	39	58	10	18	-	17	15	-	-	-
Punch-press operators, class A	169	3.96	-	-	-	-	-	-	-	1	-	3	5	8	9	38	66	5	8	6	2	1	10	-	2	2	3	3
Time	112	3.81	-	-	-	-	-	-	-	-	-	1	-	6	2	35	59	-	2	4	-	-	3	-	-	-	-	-

See footnotes at end of table.

Table 15. Occupational earnings: Milwaukee, Wis.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1971)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$2.20 and under	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80 and over
			\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	over
Men—Continued																												
Punch-press operators, class B.....	151	\$3.66	-	-	-	6	-	8	2	9	19	4	10	10	6	20	6	1	9	6	13	6	8	6	2	-	-	-
Time.....	82	3.13	-	-	-	6	-	8	2	6	17	4	9	9	4	17	-	-	-	-	-	-	-	-	-	-	-	
Incentive.....	69	4.28	-	-	-	-	-	-	-	3	2	-	1	1	2	3	6	1	9	6	13	6	8	6	2	-	-	
Tool and diemakers (jobbing) (all timeworkers).....	508	5.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	8	49	102	174	66	86	14	
Tool and diemakers (other than jobbing) (all timeworkers).....	325	5.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	37	20	45	62	34	50	53	17	3
Tool clerks.....	137	3.76	-	-	-	-	1	-	2	5	6	2	2	14	8	39	15	6	11	8	5	3	-	-	-	-	-	
Time.....	127	3.78	-	-	-	-	1	-	2	5	6	2	2	14	8	39	15	6	11	8	5	3	-	-	-	-		
Welders, hand, class A.....	760	4.25	-	-	-	-	-	-	-	-	-	-	-	11	24	67	211	102	62	137	49	37	36	12	5	5	2	
Time.....	419	3.96	-	-	-	-	-	-	-	-	-	-	-	11	24	63	205	51	23	31	9	-	-	1	1	-		
Incentive.....	341	4.61	-	-	-	-	-	-	-	-	-	-	-	4	6	6	51	39	106	40	37	36	11	4	5	2		
Welders, hand, class B.....	812	3.93	-	-	-	-	-	-	1	-	1	9	26	200	106	141	88	57	30	26	19	25	36	21	17	5	4	
Time.....	510	3.59	-	-	-	-	-	-	-	-	4	23	200	102	127	46	58	8	-	-	-	-	-	-	-	-		
Incentive.....	302	4.50	-	-	-	-	-	-	1	-	1	5	3	-	4	14	42	49	30	26	19	25	36	21	17	5		
Welders, machine, class A.....	199	4.43	-	-	-	-	-	-	-	-	-	-	-	1	1	1	3	84	5	3	25	16	11	22	12	9		
Time.....	103	3.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	2	-	16	2	-	-	-			
Incentive.....	96	4.89	-	-	-	-	-	-	-	-	-	-	-	1	1	3	1	3	3	9	14	11	22	12	9			
Welders, machine, class B.....	70	3.48	-	-	-	-	-	9	-	-	-	20	-	-	18	18	1	-	-	1	3	-	-	-	-			
Time.....	65	3.40	-	-	-	-	-	9	-	-	-	20	-	-	18	18	-	-	-	-	-	-	-	-	-			
Women																												
Janitors, porters, and cleaners (all timeworkers).....	41	3.43	-	-	-	-	-	1	-	6	3	11	4	-	-	3	13	-	-	-	-	-	-	-	-	-		
Machine-tool operators, production, class B.....	57	4.30	-	-	-	-	-	-	-	-	-	-	-	-	-	17	8	7	1	6	2	5	7	4	-	-		
Incentive.....	41	4.52	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6	7	1	6	2	5	7	4	-			
Tool clerks (all timeworkers).....	47	3.77	-	-	-	-	-	-	-	-	2	1	-	12	5	4	3	16	1	2	1	-	-	-	-	-		

¹ The Milwaukee Standard Metropolitan Statistical Area consists of Milwaukee, Ozaukee, Washington, and Waukesha Counties.
² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
³ Includes data for operators of other machine tools in addition to those shown separately.
⁴ Insufficient data to warrant publication of separate averages by method of wage payment; (a) predominantly timeworkers, or (b) predominantly incentive workers.

Table 16. Occupational earnings: Minneapolis—St. Paul, Minn.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	
			and under \$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	and over	
Men																													
Assemblers, class A (all timeworkers).....	1,236	\$3.81	-	-	-	-	-	-	-	-	7	5	38	31	215	19	87	169	275	284	106	-	-	-	-	-	-	-	-
Assemblers, class B.....	797	3.31	-	3	3	14	59	3	11	23	24	124	31	153	48	67	35	54	41	52	19	10	9	5	4	3	1	1	
Time.....	653	3.19	-	3	3	14	59	3	10	21	22	124	16	150	35	59	26	43	29	36	-	-	-	-	-	-	-	-	
Assemblers, class C (all timeworkers).....	205	3.20	-	-	-	-	-	-	-	9	1	1	108	40	32	7	7	-	-	-	-	-	-	-	-	-	-	-	
Electricians, maintenance (all timeworkers).....	39	5.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	6	2	2	-	-	17	
Inspectors, class A (all timeworkers).....	374	4.06	-	-	-	-	-	-	-	-	-	-	2	-	4	8	-	119	59	69	27	38	46	-	-	2	-		
Inspectors, class B (all timeworkers).....	103	3.90	-	-	-	-	-	-	-	-	-	6	2	2	2	2	34	1	13	3	38	-	-	-	-	-	-		
Inspectors, class C (all timeworkers).....	18	3.29	-	-	-	-	-	-	-	-	-	9	4	-	-	4	-	-	1	-	-	-	-	-	-	-	-		
Janitors, porters, and cleaners (all timeworkers).....	343	3.04	-	-	6	22	12	7	6	94	92	17	17	38	-	6	24	2	-	-	-	-	-	-	-	-	-	-	
Laborers, material handling (all timeworkers).....	384	3.33	-	-	-	-	-	3	14	31	6	86	108	56	16	6	-	6	8	44	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class A ⁴	2,403	4.01	-	-	-	-	-	-	-	-	-	1	7	12	13	92	111	320	765	324	676	25	17	27	9	2	2		
Time.....	2,250	4.01	-	-	-	-	-	-	-	-	-	1	7	12	13	80	105	310	753	308	663	12	-	15	-	-	-		
Automatic-lathe operators, class A.....	143	4.14	-	-	-	-	-	-	-	-	-	-	-	-	1	1	5	26	47	58	5	-	-	-	-	-	-		
Time.....	137	4.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	25	45	58	5	-	-	-	-	-	-		
Drill-press operators, radial, class A.....	160	3.90	-	-	-	-	-	-	-	-	1	1	2	2	8	23	7	84	8	19	-	3	1	1	1	-	-		
Time.....	132	3.90	-	-	-	-	-	-	-	-	-	-	-	-	5	21	3	82	4	17	-	-	-	-	-	-	-		
Drill-press operators, single- or multiple-spindle, class A.....	162	3.78	-	-	-	-	-	-	-	-	-	-	1	1	2	16	105	23	10	-	1	1	1	-	1	-	-		
Time.....	155	3.76	-	-	-	-	-	-	-	-	-	-	-	-	1	16	105	23	10	-	-	-	-	-	-	-	-		
Engine-lathe operators, class A (all timeworkers).....	215	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	8	73	11	100	-	-	7	-	-	-		
Grinding-machine operators, class A.....	175	3.97	-	-	-	-	-	-	-	-	-	1	-	1	-	21	1	50	40	17	33	-	5	3	2	-	2		
Time.....	157	3.90	-	-	-	-	-	-	-	-	-	-	-	1	-	19	1	50	39	17	30	-	-	-	-	-	-		
Milling-machine operators, class A.....	359	4.00	-	-	-	-	-	-	-	-	-	1	2	4	3	9	-	154	116	66	2	2	-	-	-	-	-		
Time.....	338	4.01	-	-	-	-	-	-	-	-	-	-	-	2	1	8	-	152	112	63	-	-	-	-	-	-	-		
Screw-machine operators, automatic, class A.....	27	4.14	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	3	2	19	-	-	-	-	-	-	-		
Time.....	21	4.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	18	-	-	-	-	-	-		
Turret-lathe operators, hand (including hand screw machine), class A.....	277	4.04	-	-	-	-	-	-	-	-	-	-	4	2	4	3	10	4	111	53	72	4	4	2	4	-	-		
Time.....	236	4.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	108	49	71	-	-	-	-	-	-		
Machine-tool operators, production, class B ⁴	770	3.52	-	-	-	-	-	-	-	1	12	62	40	151	84	120	137	110	14	33	4	1	-	1	-	-	-		
Time.....	718	3.52	-	-	-	-	-	-	-	1	9	55	27	143	79	118	135	108	11	29	3	-	-	-	-	-	-		
Automatic-lathe operators, class B.....	26	3.71	-	-	-	-	-	-	-	-	-	-	1	-	1	8	9	4	2	-	-	-	-	-	-	-	-		
Time.....	23	3.75	-	-	-	-	-	-	-	-	-	-	-	-	-	8	9	4	2	-	-	-	-	-	-	-	-		
Drill-press operators, radial, class B.....	101	3.53	-	-	-	-	-	-	-	9	2	11	5	21	1	4	44	2	1	-	-	-	-	1	-	-	-		
Time.....	84	3.53	-	-	-	-	-	-	-	8	-	8	-	20	1	3	42	2	-	-	-	-	-	-	-	-	-		
Drill-press operators, single- or multiple-spindle, class B.....	134	3.41	-	-	-	-	-	-	-	-	4	12	74	3	33	4	-	2	2	-	-	-	-	-	-	-	-		
Time.....	127	3.41	-	-	-	-	-	-	-	-	2	10	73	3	33	4	-	2	-	-	-	-	-	-	-	-	-		
Grinding-machine operators, class B.....	71	3.40	-	-	-	-	-	-	-	1	1	33	2	6	1	-	1	25	-	-	1	-	-	-	-	-	-		
Time.....	68	3.39	-	-	-	-	-	-	-	1	1	33	1	6	-	-	1	25	-	-	-	-	-	-	-	-	-		
Milling-machine operators, class B.....	93	3.63	-	-	-	-	-	-	-	-	-	1	3	3	3	70	12	1	-	-	-	-	-	-	-	-	-		
Time.....	89	3.63	-	-	-	-	-	-	-	-	-	-	3	2	3	69	12	-	-	-	-	-	-	-	-	-	-		

See footnotes at end of table.

Table 16. Occupational earnings: Minneapolis—St. Paul, Minn.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Num-ber of work-ers	Aver-age hourly earn-ings ²	Number of workers receiving straight-time hourly earnings of—																											
			\$2.10 and under	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	and over	
			\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	and over		
Men—Continued																														
Machine-tool operators, production, class B ⁴ —Continued																														
Turret-lathe operators, hand (including hand screw machine), class B	41	\$3.55	-	-	-	-	-	-	-	-	-	2	2	5	2	3	7	10	5	3	1	-	1	-	-	-	-	-	-	
Time	26	3.65	-	-	-	-	-	-	-	-	-	-	-	-	2	6	10	5	3	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class C ⁴ (all timeworkers)	567	3.27	1	1	-	3	18	21	8	29	48	9	101	41	56	47	4	168	-	12	-	-	-	-	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class C (all timeworkers)	102	3.29	-	-	-	-	-	-	-	1	1	-	25	15	34	25	-	1	-	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, toolroom (operate more than one type of machine) (all timeworkers)	55	4.29	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-	-	-	7	34	3	7	-	-	-	-	-		
Machinists, maintenance (all timeworkers)	30	3.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	13	-	5	2	-	-	-	-	-	-		
Machinists, production (all timeworkers)	42	4.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	26	6	-	-	-	-	-	-		
Mechanics, maintenance (all timeworkers)	95	4.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	14	12	32	29	-	-	-	-	-	-		
Punch-press operators, class A (all timeworkers)	150	3.77	-	-	-	-	-	-	-	-	-	-	-	5	-	23	20	33	53	16	-	-	-	-	-	-	-	-		
Set-up men, machine tools (all timeworkers)	20	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	11	3	-	-	-	-	-	-	-		
Tool and diemakers (jobbing) (all timeworkers)	493	5.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	99	26	150	186	28	-		
Tool and diemakers (other than jobbing) (all timeworkers)	322	4.69	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	5	16	14	167	95	17	-	-	-		
Tool clerks (all timeworkers)	53	3.55	-	-	-	-	-	-	-	-	-	-	9	9	6	4	13	6	2	2	-	-	-	-	-	-	-	-		
Welders, hand, class A	817	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	4	73	11	169	267	278	4	4	3	4	-	-	-		
Time	797	4.08	-	-	-	-	-	-	-	-	-	-	-	-	-	4	73	10	168	266	276	-	-	-	-	-	-	-		
Welders, hand, class B (all timeworkers)	316	3.85	-	-	-	-	-	-	-	-	-	-	8	-	-	32	64	20	72	120	-	-	-	-	-	-	-	-		
Welders, machine, class A (all timeworkers)	173	3.62	-	-	-	-	-	-	-	-	-	-	-	-	-	110	30	15	3	15	-	-	-	-	-	-	-	-		
Welders, machine, class B (all timeworkers)	41	3.28	-	-	-	-	-	-	-	10	8	-	-	-	10	8	5	-	-	-	-	-	-	-	-	-	-	-		
Women																														
Assemblers, class C (all timeworkers)	447	2.64	⁵ 50	-	7	18	105	31	115	94	12	6	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Inspectors, class A (all timeworkers)	9	3.70	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	3	4	-	-	-	-	-	-	-	-	-	-	
Janitors, porters, and cleaners (all timeworkers)	27	2.96	-	-	-	-	-	6	-	-	5	13	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Machine-tool operators, production, class B ⁴ (all timeworkers)	44	3.33	-	-	-	-	-	-	-	-	-	22	1	2	3	16	-	-	-	-	-	-	-	-	-	-	-	-		
Drill-press operators, single- or multiple-spindle, class B (all timeworkers)	11	3.30	-	-	-	-	-	-	-	-	-	6	-	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-		
Machine-tool operators, production, class C (all timeworkers)	72	3.01	-	-	-	-	12	6	6	13	9	-	7	11	8	-	-	-	-	-	-	-	-	-	-	-	-	-		

¹ The Minneapolis—St. Paul Standard Metropolitan Statistical Area consists of Anoka, Dakota, Hennepin, Ramsey, and Washington Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

³ Workers were distributed as follows: 14 at \$7 to \$7.20 and 3 at \$7.60 to \$7.80.

⁴ Includes data for operators of other machine tools in addition to those shown separately.

⁵ Includes 5 workers at \$1.70 to \$1.80.

Table 17. Occupational earnings: Newark and Jersey City, N.J.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			Under \$2.00	\$2.00 and under \$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.60 and over	
Men																													
Assemblers, class A	789	\$3.93	-	-	-	-	-	-	-	4	6	-	3	-	-	7	65	124	262	122	189	1	-	-	6	-	-	-	-
Time	655	3.96	-	-	-	-	-	-	-	-	-	-	1	-	-	5	52	101	211	101	184	-	-	-	-	-	-	-	-
Incentive	134	3.82	-	-	-	-	-	-	-	4	6	-	2	-	-	2	13	23	51	21	5	1	-	-	6	-	-	-	-
Assemblers, class B	481	3.57	-	-	-	-	-	-	-	-	6	8	-	66	10	165	69	29	40	5	18	43	1	1	19	1	-	-	-
Time	332	3.51	-	-	-	-	-	-	-	-	6	8	-	64	10	103	38	10	36	-	16	41	-	-	-	-	-	-	-
Incentive	149	3.72	-	-	-	-	-	-	-	-	-	-	-	-	-	62	31	19	4	5	2	2	1	1	19	1	-	-	
Assemblers, class C	189	3.06	8	-	14	12	5	7	2	-	2	4	46	8	46	8	46	2	18	4	5	3	2	1	-	-	-	-	-
Time	144	2.91	8	-	14	12	4	6	2	-	2	4	46	8	20	-	16	-	1	1	1	-	-	-	-	-	-	-	-
Incentive	45	3.52	-	-	-	-	-	1	-	-	-	-	-	-	-	26	2	4	4	2	2	1	-	-	-	-	-	-	-
Carpenters, maintenance (all timeworkers)	26	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	12	-	3	1	2	-	-	-	-	-	-
Electricians, maintenance (all timeworkers)	127	4.72	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5	21	13	15	6	5	3	-	-	-	56	-	-
Inspectors, class A	218	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	16	27	61	30	30	30	4	-	20	-	-	-	-	-
Time	217	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	16	27	60	30	30	30	4	-	20	-	-	-	-	-
Incentive	205	3.97	-	-	-	-	-	-	-	-	-	-	-	-	-	45	28	-	-	-	125	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners	258	2.66	-	-	70	2	53	13	15	3	7	15	31	21	23	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	248	2.63	-	-	70	2	53	13	15	3	7	15	31	21	13	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Incentive	252	3.00	12	6	2	-	6	18	4	23	12	26	37	7	38	41	20	-	-	-	-	-	-	-	-	-	-	-	-
Time	234	2.96	12	6	2	-	6	18	4	23	12	26	37	7	38	23	20	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class A	1,692	3.95	-	-	-	-	2	2	2	2	-	4	18	8	100	217	120	366	312	377	40	104	8	8	-	-	-	-	2
Time	1,381	3.98	-	-	-	-	-	-	-	-	-	-	13	6	47	187	104	270	276	347	33	94	4	-	-	-	-	-	-
Incentive	311	3.84	-	-	-	-	2	2	2	2	-	4	5	2	53	30	16	96	36	30	7	10	4	8	-	-	-	-	2
Drill-press operators, radial, class A	107	3.91	-	-	-	-	-	-	-	-	-	-	3	-	13	3	17	20	9	40	2	-	-	-	-	-	-	-	-
Time	61	3.98	-	-	-	-	-	-	-	-	-	-	3	-	3	-	14	5	-	36	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class A	81	3.56	-	-	-	2	2	2	2	-	4	4	5	27	5	4	6	4	4	2	2	4	2	2	4	-	6	-	-
Time	35	3.39	-	-	-	-	-	-	-	-	-	-	-	3	23	3	2	4	-	-	-	-	-	-	-	-	-	-	-
Incentive	46	3.70	-	-	-	2	2	2	2	-	4	4	2	4	2	4	2	2	4	2	2	4	2	2	4	-	6	-	-
Engine-lathe operators, class A	246	4.28	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	53	46	64	8	68	4	-	-	-	-	-	-
Time	228	4.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	46	61	8	68	4	-	-	-	-	-	-
Grinding-machine operators, class A	253	3.87	-	-	-	-	-	-	-	-	-	-	-	1	10	49	12	84	39	55	3	-	-	-	-	-	-	-	-
Time	212	3.88	-	-	-	-	-	-	-	-	-	-	-	1	5	39	8	73	34	51	1	-	-	-	-	-	-	-	-
Incentive	41	3.81	-	-	-	-	-	-	-	-	-	-	-	-	5	10	4	11	5	4	2	-	-	-	-	-	-	-	-
Milling-machine operators, class A	289	4.00	-	-	-	-	-	-	-	-	-	-	6	-	11	31	27	46	50	83	20	15	-	-	-	-	-	-	-
Time	229	4.02	-	-	-	-	-	-	-	-	-	-	5	-	5	29	26	17	45	69	20	13	-	-	-	-	-	-	-
Incentive	60	3.90	-	-	-	-	-	-	-	-	-	-	1	-	6	2	1	29	5	14	-	2	-	-	-	-	-	-	-
Screw-machine operators, automatic, class A	56	4.13	-	-	-	-	-	-	-	-	-	-	2	-	2	5	4	28	7	4	-	-	2	-	-	-	-	-	2
Time	45	4.01	-	-	-	-	-	-	-	-	-	-	2	-	2	4	4	22	7	4	-	-	-	-	-	-	-	-	-
Incentive	11	4.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	6	-	-	-	2	-	-	-	-	\$2
Turret-lathe operators, hand (including hand screw machine), class A	226	3.86	-	-	-	-	-	-	-	-	-	-	3	-	29	23	13	76	27	54	1	-	-	-	-	-	-	-	-
Time	152	3.95	-	-	-	-	-	-	-	-	-	-	3	-	3	13	8	52	22	51	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class B	1,190	4.17	-	-	-	-	-	-	-	20	-	18	34	24	66	119	57	88	27	59	260	412	2	2	-	-	-	2	-
Incentive	177	3.86	-	-	-	-	-	-	-	-	-	-	3	-	23	33	35	26	14	19	16	2	2	2	-	-	-	2	-
Drill-press operators, radial, class B	36	3.64	-	-	-	-	-	-	-	-	-	-	-	-	6	13	12	-	-	5	-	-	-	-	-	-	-	-	-
Incentive	23	3.74	-	-	-	-	-	-	-	-	-	-	-	-	4	2	12	-	-	5	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class B	78	3.12	-	-	-	-	-	-	-	20	-	4	13	6	16	19	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	66	3.06	-	-	-	-	-	-	-	20	-	4	13	6	11	12	-	-	-	-	-	-	-	-	-	-	-	-	-
Engine-lathe operators, class B (all timeworkers)	22	3.68	-	-	-	-	-	-	-	-	-	-	3	6	6	-	-	-	1	-	5	1	-	-	-	-	-	-	-
Milling-machine operators, class B	90	3.78	-	-	-	-	-	-	-	-	-	-	3	2	4	30	8	25	2	4	8	2	2	-	-	-	-	-	-
Time	61	3.70	-	-	-	-	-	-	-	-	-	-	3	2	-	26	6	16	-	8	-	-	-	-	-	-	-	-	-
Incentive	29	3.95	-	-	-	-	-	-	-	-	-	-	-	-	4	4	2	9	2	4	-	2	-	2	-	-	-	-	-

See footnotes at end of table.

Table 17. Occupational earnings: Newark and Jersey City, N.J.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			Under \$2.00	\$2.00 and under \$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	and over
Men—Continued																												
Machine-tool operators, production, class B ⁴ —Continued																												
Turret-lathe operators, hand (including hand screw machine), class B.....	124	\$3.82	-	-	-	-	-	-	-	-	-	-	-	-	16	30	24	12	24	6	10	-	-	-	2	-	-	-
Time.....	42	3.67	-	-	-	-	-	-	-	-	-	-	-	-	8	16	6	-	12	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class C ⁴	290	3.20	-	6	8	-	8	7	15	12	12	11	23	25	41	38	18	8	6	34	2	16	-	-	-	-	-	-
Time.....	194	3.27	-	6	6	-	-	10	10	9	5	16	13	35	25	7	-	2	32	2	16	-	-	-	-	-	-	
Incentive.....	96	3.06	-	-	2	-	8	7	5	2	3	6	7	12	6	13	11	8	4	2	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class C.....	46	3.46	-	-	-	-	-	-	-	-	-	-	16	-	4	7	-	-	1	16	2	-	-	-	-	-	-	
Time.....	41	3.48	-	-	-	-	-	-	-	-	-	16	-	4	2	-	-	1	16	2	-	-	-	-	-	-	-	
Grinding-machine operators, class C.....	71	3.30	-	-	-	7	6	2	-	3	8	-	6	2	11	7	2	1	-	-	16	-	-	-	-	-	-	
Time.....	43	3.64	-	-	-	-	-	-	-	5	-	6	2	9	5	-	-	-	-	-	16	-	-	-	-	-	-	
Machine-tool operators, toolroom (operate one type of machine) (all timeworkers).....	472	4.28	-	-	-	-	-	-	-	-	-	-	-	-	25	6	103	91	68	20	30	14	12	-	34	69	-	
Machine-tool operators, toolroom (operate more than one type of machine) (all timeworkers).....	433	4.04	-	-	-	-	-	-	-	-	-	-	-	6	48	83	100	22	22	32	27	14	27	-	4	48	-	
Machinists, production (all timeworkers).....	165	3.62	-	-	-	-	-	-	-	-	-	-	-	13	26	49	27	21	19	10	-	-	-	-	-	-	-	
Mechanics, maintenance (all timeworkers).....	36	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	1	17	4	14	-	-	-	-	-	-	-	-	
Polishers and buffers, metal.....	55	3.69	-	-	-	-	-	-	-	-	-	-	-	13	6	2	11	15	3	1	-	-	1	2	1	-	-	
Time.....	43	3.58	-	-	-	-	-	-	-	-	-	-	-	13	6	-	5	15	3	1	-	-	-	-	-	-	-	
Incentive.....	12	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	-	-	-	-	-	1	2	1	-	-	
Polishing- and buffing-machine operators.....	138	3.16	-	-	-	40	-	-	20	-	-	5	-	1	11	59	2	-	-	-	-	-	-	-	-	-	-	
Time.....	112	3.06	-	-	-	40	-	-	20	-	-	5	-	1	11	59	2	-	-	-	-	-	-	-	-	-	-	
Funch-press operators, class A.....	103	3.49	-	-	-	-	2	-	2	6	2	2	8	17	18	8	34	2	-	2	-	-	-	-	-	-	-	
Time.....	21	3.30	-	-	-	-	-	-	-	-	-	-	13	8	-	-	-	-	-	-	-	-	-	-	-	-	-	
Incentive.....	82	3.54	-	-	-	-	2	-	2	6	2	2	8	4	10	8	34	2	-	2	-	-	-	-	-	-	-	
Funch-press operators, class B.....	277	2.88	-	20	32	13	24	-	50	20	13	8	1	4	13	26	5	3	2	4	29	3	2	2	-	3	-	
Time.....	251	2.74	-	20	32	13	24	-	50	20	13	8	1	4	13	26	1	-	-	26	-	-	-	-	-	-	-	
Tool and diemakers (jobbing) (all timeworkers).....	615	4.41	-	-	-	-	-	-	-	-	-	-	-	-	-	13	24	45	145	86	71	45	118	65	3	-	-	
Tool and diemakers (other than jobbing) (all timeworkers).....	417	4.39	-	-	-	-	-	-	-	-	-	-	-	-	-	4	93	83	48	107	25	7	-	-	-	6	50	
Tool clerks (all timeworkers).....	85	3.50	-	-	-	2	-	-	20	-	-	6	19	8	3	-	-	27	-	-	-	-	-	-	-	-	-	
Welders, hand, class A.....	280	4.01	-	-	-	-	-	-	-	-	-	-	-	-	63	19	89	44	32	13	4	-	-	-	-	16	-	
Time.....	247	4.01	-	-	-	-	-	-	-	-	-	-	-	63	19	66	36	30	13	4	-	-	-	-	-	16	-	
Welders, hand, class B.....	178	3.45	-	-	-	-	2	10	-	8	3	60	4	35	16	18	12	6	-	1	1	-	-	-	-	-	2	
Time.....	155	3.38	-	-	-	-	2	10	-	8	3	60	4	27	7	18	12	4	-	-	-	-	-	-	-	-	-	
Women																												
Assemblers, class B.....	346	2.85	-	2	-	7	72	16	38	58	21	8	31	25	35	27	6	-	-	-	-	-	-	-	-	-	-	-
Time.....	128	2.71	-	-	-	60	-	5	35	-	-	10	9	7	2	-	-	-	-	-	-	-	-	-	-	-	-	
Incentive.....	218	2.94	-	2	-	7	12	16	33	23	8	21	16	28	25	6	-	-	-	-	-	-	-	-	-	-	-	
Assemblers, class C.....	296	3.30	-	-	2	-	8	4	-	-	-	4	166	32	14	-	-	64	2	-	-	-	-	-	-	-	-	
Incentive.....	37	3.17	-	-	-	-	2	-	-	2	19	2	10	-	-	-	-	-	2	-	-	-	-	-	-	-	-	
Inspectors, class B.....	22	3.16	-	-	-	1	-	6	-	1	-	-	-	4	5	5	-	-	-	-	-	-	-	-	-	-	-	
Time.....	14	3.46	-	-	-	-	-	-	-	-	-	-	-	4	5	5	-	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class C ⁵	21	3.15	-	-	-	2	-	-	-	4	-	1	-	-	12	-	-	-	-	-	2	-	-	-	-	-	-	

¹ The Newark and Jersey City Standard Metropolitan Statistical Areas consist of Essex, Hudson, Morris, and Union Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

³ Insufficient data to warrant publication of separate averages by method of wage payment, predominantly timeworkers.

⁴ Includes data for operators of other machine tools in addition to those shown separately.

⁵ All workers were at \$7.20 to \$7.40.

⁶ All workers were at \$5.60 to \$5.80.

Table 18. Occupational earnings: New York, N.Y.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																												
			\$1.80 and under	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00			
			\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	and over			
Men																															
Assemblers, class A	603	\$3.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	17	4	45	10	110	105	134	95	58	8	7	5
Time	593	3.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	17	4	45	10	110	105	133	92	57	6	6	3
Incentive	10	4.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	1	2	1	32
Assemblers, class B	843	3.20	-	-	4	-	-	1	4	51	23	68	50	44	129	62	65	92	52	66	65	53	3	1	2	2	2	2	2	4	
Time	829	3.18	-	-	4	-	-	1	4	51	23	68	50	44	129	62	65	92	50	66	65	52	3	-	-	-	-	-	-	-	
Incentive	14	4.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	2	2	2	2	4	
Assemblers, class C	885	2.67	-	-	33	30	194	89	23	73	82	116	65	22	28	31	9	7	6	8	23	15	9	10	2	2	2	2	4		
Time	694	2.56	-	-	33	30	129	89	21	70	74	108	53	18	21	29	3	3	-	1	12	-	-	-	-	-	-	-	-		
Electricians, maintenance (all timeworkers)	40	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	7	4	12	5	2	2	2	6	-		
Inspectors, class A	128	4.00	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	1	1	13	1	23	17	31	19	7	6	1	5	
Time	125	4.00	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	1	13	1	23	17	31	16	7	6	1	5	
Inspectors, class B	134	3.55	-	-	-	-	-	1	-	2	1	-	1	5	37	6	12	1	10	4	6	20	-	3	25	-	-	-	-		
Time	130	3.53	-	-	-	-	-	1	-	2	1	-	1	5	37	6	12	1	10	4	6	16	-	3	25	-	-	-	-		
Incentive	93	2.24	-	24	32	3	-	-	-	10	-	22	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Time	71	2.08	-	24	32	3	-	-	-	10	-	22	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Janitors, porters, and cleaners	285	2.51	21	13	18	16	14	45	19	22	26	6	15	15	26	6	18	5	-	-	-	-	-	-	-	-	-	-	-		
Time	280	2.50	21	13	18	16	14	45	19	22	26	6	15	15	25	2	18	5	-	-	-	-	-	-	-	-	-	-	-		
Laborers, material handling (all timeworkers)	364	2.58	26	26	37	3	35	4	37	34	25	20	2	33	17	13	18	8	15	7	4	-	-	-	-	-	-	-	-		
Machine-tool operators, production, class A ³	1,654	3.97	-	-	-	-	-	-	-	-	-	-	-	2	32	31	20	28	42	88	333	232	374	245	137	31	42	17			
Time	1,485	3.92	-	-	-	-	-	-	-	-	-	-	-	2	30	30	19	25	36	82	318	222	360	230	114	2	15	-			
Automatic-lathe operators, class A	44	3.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	13	2	4	1	2	-	1		
Time	41	3.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	13	2	4	1	-	-	-		
Drill-press operators, radial, class A	60	3.79	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	2	6	17	6	3	13	3	3	3	1	-	-		
Time	33	3.67	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	14	2	-	13	-	-	-	-	-	-	-		
Drill-press operators, single- or multiple-spindle, class A	77	3.92	-	-	-	-	-	-	-	-	-	-	-	2	3	-	1	1	-	-	23	6	30	5	1	3	1	1	1		
Time	63	3.86	-	-	-	-	-	-	-	-	-	-	-	2	2	-	1	1	-	-	21	4	29	4	-	-	-	-	-		
Incentive	14	4.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	2	1	1	1	3	1	1	1		
Engine-lathe operators, class A	260	3.96	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	1	8	7	67	37	64	33	30	2	3	1	1		
Time	247	3.93	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	1	8	7	67	36	63	30	28	-	-	-	-		
Grinding-machine operators, class A	247	3.72	-	-	-	-	-	-	-	-	-	-	-	-	28	14	14	16	1	19	67	13	35	11	23	2	3	1	1		
Time	231	3.67	-	-	-	-	-	-	-	-	-	-	-	28	14	14	16	1	19	62	13	33	10	21	-	-	-	-	-		
Incentive	16	4.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	2	1	2	2	3	1	1		
Milling-machine operators, class A	299	4.06	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	-	5	91	35	76	29	37	5	17	-	-		
Time	274	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	4	90	34	74	26	30	-	14	-	-		
Screw-machine operators, automatic, class A	15	4.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	5	1	-	7	1	-		
Time	7	4.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	5	-	-	1	-	-		
Turret-lathe operators, hand (including hand screw machine), class A	162	3.90	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	16	14	33	29	26	19	8	5	-	5	-		
Time	137	3.82	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	14	14	30	27	23	15	6	1	-	-	-	-		
Machine-tool operators, production, class B ³	1,330	3.23	-	-	-	-	-	14	30	98	58	75	79	141	126	65	159	86	131	185	62	9	7	2	3	-	-	-			
Time	1,285	3.21	-	-	-	-	-	14	30	98	40	66	79	141	125	65	159	86	129	158	59	6	3	-	-	-	-	-	-		
Incentive	45	3.85	-	-	-	-	-	-	-	-	58	75	-	-	1	-	-	-	2	27	3	3	4	2	3	-	-	-	-		
Automatic-lathe operators, class B (all timeworkers)	31	3.14	-	-	-	-	-	-	-	-	-	-	3	13	4	3	-	-	3	-	3	-	2	-	-	-	-	-	-		
Drill-press operators, radial, class B (all timeworkers)	45	3.53	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	27	3	-	-	-	-	-	-	-		
Drill-press operators, single- or multiple-spindle, class B	181	3.01	-	-	-	-	-	-	25	28	11	13	11	32	7	3	5	21	3	21	-	-	-	-	1	-	-	-	-		
Time	180	3.00	-	-	-	-	-	-	25	28	11	13	11	32	7	3	5	21	3	21	-	-	-	-	-	-	-	-	-		

See footnotes at end of table.

Table 18. Occupational earnings: New York, N.Y.—Continued

(Number and average straight-time hourly earnings ² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																											
			\$1.80 and under	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00 and over		
			\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	and over	
Men—Continued																														
Machinists, production, class B ² —Continued																														
Engine-lathe operators, class B—Time	87	\$3.42	-	-	-	-	-	-	-	-	-	3	-	-	-	17	2	8	6	39	10	1	-	1	-	-	-	-		
Grinding-machine operators, class B—Time	84	3.40	-	-	-	-	-	-	-	-	-	3	-	-	17	2	8	6	39	9	-	-	-	-	-	-	-			
Milling-machine operators, class B—Time	196	3.11	-	-	-	-	-	14	2	1	19	45	26	10	13	8	1	1	15	21	15	2	3	-	-	-	-			
Turret-lathe operators, hand (including hand screw machine), class B—Time	175	3.05	-	-	-	-	-	14	2	1	19	45	26	10	12	8	1	1	14	2	15	2	3	-	-	-	-			
Drill-press operators, radial, class C (all timeworkers)	217	3.36	-	-	-	-	-	-	-	-	-	4	-	5	37	11	37	29	25	33	17	11	4	2	-	2	-			
Grinding-machine operators, class C—Time	206	3.32	-	-	-	-	-	-	-	-	-	4	-	5	37	11	37	29	25	33	14	10	1	-	-	-	-			
Machinists, production, class C (all timeworkers)	11	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	3	2	-	-	2	-			
Machinists, maintenance (all timeworkers)	70	3.43	-	-	-	-	-	-	-	-	-	3	-	10	10	7	12	2	1	10	12	-	1	1	1	-	-			
Machinists, production (all timeworkers)	65	3.37	-	-	-	-	-	-	-	-	-	3	-	10	10	7	12	2	1	9	11	-	-	-	-	-	-			
Machinists, maintenance (all timeworkers)	651	2.65	14	9	2	24	56	61	67	105	29	67	51	46	34	7	38	15	8	4	13	1	-	-	-	-	-			
Machinists, production (all timeworkers)	534	2.65	14	9	2	24	56	46	33	75	22	60	49	45	29	6	34	15	1	4	10	-	-	-	-	-	-			
Machinists, maintenance (all timeworkers)	16	2.96	-	-	-	-	-	1	2	2	-	-	-	7	-	-	-	-	-	1	3	-	-	-	-	-	-			
Machinists, production (all timeworkers)	218	2.72	-	-	-	-	17	42	33	6	41	23	15	17	1	17	1	2	-	3	-	-	-	-	-	-	-			
Machinists, maintenance (all timeworkers)	112	2.85	-	-	-	-	2	8	3	-	34	21	15	13	-	14	1	1	-	-	-	-	-	-	-	-	-			
Machinists, production (all timeworkers)	42	2.56	-	9	-	-	12	-	-	-	7	-	2	3	-	2	4	-	-	1	-	-	-	-	-	-	-			
Machinists, maintenance (all timeworkers)	40	2.51	-	9	-	-	12	-	-	-	7	-	2	3	-	2	4	-	-	1	-	-	-	-	-	-	-			
Machinists, production (all timeworkers)	85	2.50	-	-	-	18	14	-	16	9	4	11	4	-	4	-	3	-	-	2	-	-	-	-	-	-	-			
Machinists, maintenance (all timeworkers)	84	2.49	-	-	-	18	14	-	16	9	4	11	4	-	4	-	2	-	-	2	-	-	-	-	-	-	-			
Machinists, production (all timeworkers)	92	3.00	-	-	-	-	8	-	4	3	8	6	18	10	4	8	14	1	3	4	1	-	-	-	-	-	-			
Machinists, maintenance (all timeworkers)	87	2.99	-	-	-	-	8	-	4	2	8	6	17	9	4	8	14	-	3	4	-	-	-	-	-	-	-			
Machinists, production (all timeworkers)	122	3.44	-	-	-	-	-	-	-	-	-	-	-	-	16	30	14	10	29	9	-	6	8	-	-	-	-			
Machinists, maintenance (all timeworkers)	52	4.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	4	5	13	5	1	-	³ 14			
Machinists, production (all timeworkers)	151	4.11	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	12	27	2	14	6	20	12	8	⁶ 26			
Machinists, maintenance (all timeworkers)	42	3.61	-	-	-	-	-	-	-	-	-	-	3	1	3	3	2	3	9	10	-	4	-	-	-	-	4			
Machinists, production (all timeworkers)	236	3.01	-	-	14	14	-	7	-	7	-	8	15	3	30	52	39	-	23	13	-	11	-	-	-	-	-			
Machinists, maintenance (all timeworkers)	22	2.66	-	3	-	-	4	-	4	-	4	-	-	2	4	-	-	-	-	1	-	-	-	-	-	-	-			
Machinists, production (all timeworkers)	85	3.54	-	-	-	-	-	-	11	-	-	-	-	4	-	5	2	-	49	-	1	-	-	1	-	1	2			
Machinists, maintenance (all timeworkers)	71	3.30	-	-	-	-	-	-	11	-	-	-	-	4	-	5	2	-	49	-	-	-	-	-	-	-	3			
Machinists, production (all timeworkers)	154	2.64	-	-	-	6	52	-	5	26	7	11	4	1	22	3	2	5	6	-	-	-	3	1	-	-	-			
Machinists, maintenance (all timeworkers)	143	2.57	-	-	-	6	52	-	5	25	7	10	4	1	22	2	1	3	5	-	-	-	-	-	-	-	-			
Machinists, production (all timeworkers)	11	3.49	-	-	-	-	-	-	-	1	-	1	-	-	-	1	1	2	1	-	-	-	3	1	-	-	-			
Machinists, maintenance (all timeworkers)	87	3.86	-	-	-	-	-	-	-	-	-	-	-	4	2	6	-	6	5	10	4	38	4	2	5	-	1			
Machinists, production (all timeworkers)	81	3.83	-	-	-	-	-	-	-	-	-	-	-	4	2	6	-	6	5	10	2	38	4	2	5	-	1			
Machinists, maintenance (all timeworkers)	233	4.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	-	33	89	11	29	-	12			
Machinists, production (all timeworkers)	172	4.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	14	24	27	13	9	29	⁷ 48			
Machinists, maintenance (all timeworkers)	94	3.20	-	11	-	-	-	-	12	5	3	1	-	1	14	-	6	2	3	20	12	-	4	-	-	-	-			
Machinists, production (all timeworkers)	167	4.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	44	14	12	10	39	13	14	17			
Machinists, maintenance (all timeworkers)	164	4.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	44	14	12	10	39	12	12	17			
Machinists, production (all timeworkers)	238	3.15	-	-	-	-	-	16	-	32	7	-	-	40	21	44	33	18	13	4	2	6	2	6	2	-	-			
Machinists, maintenance (all timeworkers)	236	3.15	-	-	-	-	-	16	-	32	7	-	-	40	21	42	33	18	13	4	2	6	2	6	2	-	-			

See footnotes at end of table.

Table 18. Occupational earnings: New York, N.Y.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			\$1.80 and under	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00 and over	
			\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	and over	
Men—Continued																													
Welders, machine, class A (all timeworkers).....	100	\$3.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	4	11	30	37	-	-	-	-	
Welders, machine, class B (all timeworkers).....	111	2.79	-	-	-	5	2	5	6	37	5	2	-	43	1	2	-	-	-	-	-	3	-	-	-	-	-	-	-
Women																													
Assemblers, class B (all timeworkers).....	60	2.52	-	-	8	8	8	7	11	6	1	3	-	4	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Assemblers, class C (all timeworkers).....	319	2.51	-	8	18	6	137	28	10	37	8	7	7	10	3	5	3	4	-	-	10	9	6	2	1	-	-	-	
Inspectors, class B Time.....	19	3.26	-	-	-	-	-	-	-	-	1	6	-	2	-	1	3	-	-	3	-	1	-	2	-	-	-	-	
Inspectors, class C Time.....	47	2.59	-	-	3	-	-	15	-	-	10	10	8	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class B ⁴ Time.....	42	3.45	-	-	-	-	-	1	4	1	-	4	3	2	-	-	-	-	-	4	9	6	4	4	-	-	-	-	
Grinding-machine operators, class B ^{5a} / Time.....	37	3.42	-	-	-	-	-	1	4	1	-	4	3	2	-	-	-	-	-	4	4	6	4	4	-	-	-	-	
Machine-tool operators, production, class C ⁵ Time.....	22	3.48	-	-	-	-	-	1	-	1	-	4	3	-	-	-	-	-	-	5	3	1	4	-	-	-	-	-	
Machine-tool operators, production, class C ⁵ Time.....	140	2.46	-	-	32	4	22	2	32	15	20	4	3	-	-	2	-	1	-	1	2	-	-	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class C ^{6a} / Grinding-machine operators, class C.....	128	2.46	-	-	32	4	16	-	29	15	20	4	3	-	-	2	-	-	-	1	2	-	-	-	-	-	-	-	
Time.....	30	2.53	-	-	-	4	6	2	5	4	6	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Punch-press operators, class B.....	22	2.80	-	-	-	-	-	-	9	5	4	-	-	-	-	-	-	1	-	1	2	-	-	-	-	-	-	-	
Time.....	21	2.77	-	-	-	-	-	-	9	5	4	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	
Punch-press operators, class B.....	22	2.81	-	-	-	-	4	-	1	8	-	3	2	-	-	1	-	-	-	2	1	-	-	-	-	-	-	-	
Time.....	18	2.63	-	-	-	-	4	-	1	8	-	3	2	-	-	1	-	-	-	2	1	-	-	-	-	-	-	-	

¹ The New York Standard Metropolitan Statistical Area consists of New York City (Bronx, Kings, New York, Queens, and Richmond Counties), and Nassau, Rockland, Suffolk, and Westchester Counties.
² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
³ All workers were at \$5 to \$5.20.
⁴ Workers were distributed as follows: 1 at \$5 to \$5.20; 1 at \$5.20 to \$5.40; and 2 at \$5.80 to \$6.
⁵ Includes data for operators of other machine tools in addition to those shown separately.
⁶ Workers were distributed as follows: 24 at \$5 to \$5.20 and 2 at \$5.80 to \$6.
⁷ Workers were distributed as follows: 12 at \$5 to \$5.20; 22 at \$5.20 to \$5.40, and 14 at \$5.60 to \$5.80.
⁸ Insufficient data to warrant publication of separate averages by method of wage payment; (a) predominantly timeworkers, or (b) predominantly incentive workers.

Table 19. Occupational earnings: Philadelphia, Pa.—N.J.¹(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, April 1971)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			Under \$2.00	\$2.00 and under \$2.10	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.40 and over
Men																													
Assemblers, class A	1,338	\$3.84	-	-	-	-	-	-	2	20	30	14	32	6	4	43	151	125	471	310	38	8	43	5	8	14	14	-	-
Time	1,269	3.79	-	-	-	-	-	2	20	30	14	32	6	4	43	151	98	471	309	34	7	43	-	5	8	14	-	-	
Incentive	69	4.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-	1	4	1	-	5	3	14	14	-	-
Assemblers, class B	736	3.23	-	-	10	15	15	10	77	30	35	40	30	72	90	25	101	120	32	25	-	1	2	2	1	1	2	-	-
Time	722	3.20	-	-	10	15	15	10	77	30	35	40	30	72	90	25	101	119	30	23	-	-	-	-	-	-	-	-	-
Assemblers, class C	467	2.85	6	-	-	-	20	37	160	28	10	58	29	21	48	26	14	3	3	1	1	-	2	-	-	-	-	-	-
Time	412	2.79	6	-	-	-	20	37	160	28	5	49	24	14	43	22	4	-	-	-	-	-	-	-	-	-	-	-	-
Carpenters, maintenance (all timeworkers)	27	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	5	7	4	7	-	-	-	-	-	-	-
Electricians, maintenance (all timeworkers)	124	4.26	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9	20	33	24	10	-	24	-	-	-	-	-	-
Inspectors, class A	457	3.89	-	-	-	-	-	-	-	-	-	-	-	-	11	-	142	67	105	42	19	41	-	6	24	-	-	-	-
Time	454	3.89	-	-	-	-	-	-	-	-	-	-	-	-	11	-	142	64	105	42	19	41	-	6	24	-	-	-	-
Inspectors, class B (all timeworkers)	341	3.73	-	-	-	-	-	-	-	-	-	-	2	46	14	-	91	58	37	21	71	1	-	-	-	-	-	-	-
Inspectors, class C	75	3.12	-	-	12	-	-	-	14	5	-	7	10	3	6	1	7	1	1	1	7	1	-	-	-	-	-	-	-
Time	71	3.06	-	-	12	-	-	-	14	5	-	7	10	3	6	1	7	-	-	6	-	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners (all timeworkers)	394	3.10	-	1	10	-	7	15	27	10	9	43	41	19	122	72	-	-	18	-	-	-	-	-	-	-	-	-	-
Laborers, material handling (all timeworkers)	287	3.14	-	-	10	2	-	14	7	11	5	5	41	46	20	46	76	-	4	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class A ⁴	3,344	4.07	-	-	-	-	-	-	-	-	-	18	2	44	155	45	206	397	808	568	255	344	267	115	33	69	18	-	-
Time	2,994	4.04	-	-	-	-	-	-	-	-	-	18	2	44	151	41	177	364	774	531	219	295	222	80	12	55	9	-	-
Incentive	350	4.36	-	-	-	-	-	-	-	-	-	-	-	-	4	4	29	33	34	37	36	49	45	35	21	14	9	-	-
Automatic-lathe operators, class A	50	3.91	-	-	-	-	-	-	-	-	-	9	-	-	-	-	3	7	13	2	6	2	-	6	2	-	-	-	-
Time	38	3.81	-	-	-	-	-	-	-	-	-	9	-	-	-	-	2	6	10	-	6	-	-	5	-	-	-	-	-
Incentive	12	4.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	3	2	-	2	-	1	2	-	-	-	-
Drill-press operators, radial, class A	306	3.91	-	-	-	-	-	-	-	-	-	9	-	-	1	6	24	54	121	54	16	13	2	3	2	1	-	-	-
Time	271	3.88	-	-	-	-	-	-	-	-	-	9	-	-	4	20	49	119	48	12	10	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class A	114	3.78	-	-	-	-	-	-	-	-	-	-	-	8	15	22	34	13	-	8	6	2	4	1	-	1	-	-	-
Time	78	3.62	-	-	-	-	-	-	-	-	-	-	-	5	15	13	29	13	-	3	-	-	-	-	-	-	-	-	-
Engine-lathe operators, class A	436	4.34	-	-	-	-	-	-	-	-	-	-	-	4	5	6	21	44	140	33	32	79	41	12	15	4	-	-	-
Time	414	4.36	-	-	-	-	-	-	-	-	-	-	-	4	4	4	20	34	138	28	32	79	41	12	15	3	-	-	-
Incentive	22	3.95	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	10	2	5	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class A	541	3.81	-	-	-	-	-	-	-	-	-	-	2	-	120	6	37	44	227	33	25	40	1	2	4	-	-	-	-
Time	525	3.79	-	-	-	-	-	-	-	-	-	-	2	-	120	6	37	44	227	25	24	40	-	-	-	-	-	-	-
Incentive	16	4.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	1	-	1	2	4	-	-	-	-
Milling-machine operators, class A	275	3.92	-	-	-	-	-	-	-	-	-	-	-	-	9	5	29	62	50	71	19	19	7	3	1	-	-	-	-
Time	234	3.88	-	-	-	-	-	-	-	-	-	-	-	-	9	4	24	59	41	67	14	10	6	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class A	287	4.01	-	-	-	-	-	-	-	-	-	-	-	12	9	-	7	20	106	63	34	1	30	5	-	-	-	-	-
Time	269	4.01	-	-	-	-	-	-	-	-	-	-	-	12	9	-	6	16	104	59	28	-	30	5	-	-	-	-	-
Incentive	18	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	2	4	6	1	-	-	-	-	-	-	-
Machine-tool operators, production, class B ⁴	2,084	3.76	-	-	57	-	-	9	-	21	46	23	90	78	75	124	193	415	357	226	130	56	46	44	40	23	31	-	-
Time	1,609	3.59	-	-	57	-	-	9	-	21	46	23	86	71	62	106	158	367	305	179	89	26	-	4	-	-	-	-	-
Automatic-lathe operators, class B	101	3.25	-	-	-	-	-	-	-	-	10	9	40	-	-	1	24	7	7	-	1	2	-	-	-	-	-	-	-
Time	90	3.21	-	-	-	-	-	-	-	-	10	9	40	-	-	-	18	6	5	-	-	2	-	-	-	-	-	-	-
Drill-press operators, radial, class B	101	3.36	-	-	-	-	-	-	-	-	-	-	8	6	6	45	26	6	4	-	-	-	-	-	-	-	-	-	-
Time	96	3.35	-	-	-	-	-	-	-	-	-	-	8	4	6	45	26	5	2	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 19. Occupational earnings: Philadelphia, Pa.—N.J.'—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, April 1971)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																											
			Under \$2.00	\$2.00 and under \$2.10	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	and over	
Men—Continued																														
Machine-tool operators, production, class B ⁴ —Continued																														
Drill-press operators, single- or multiple-spindle, class B.....	145	\$2.90	-	-	57	-	-	-	-	-	10	-	5	11	36	-	2	18	4	1	1	-	-	-	-	-	-	-	-	
Time.....	137	2.85	-	-	57	-	-	-	-	-	10	-	5	11	36	-	1	17	-	-	-	-	-	-	-	-	-	-	-	
Engine-lathe operators, class B.....	102	3.76	-	-	-	-	-	-	-	-	9	-	10	2	-	-	1	8	42	25	5	-	-	-	-	-	-	-	-	
Time.....	82	3.70	-	-	-	-	-	-	-	-	9	-	10	-	-	-	1	7	35	20	-	-	-	-	-	-	-	-	-	
Grinding-machine operators, class B.....	403	4.31	-	-	-	-	-	-	-	-	9	-	-	1	13	39	15	39	48	33	28	45	21	33	36	33	20	29	-	
Time.....	100	3.78	-	-	-	-	-	-	-	-	9	-	-	-	6	1	11	33	9	2	24	1	33	4	33	4	-	-	-	
Milling-machine operators, class B.....	294	3.74	-	-	-	-	-	-	-	-	-	-	10	-	22	10	10	40	14	121	63	-	2	2	-	-	-	-	-	-
Time.....	284	3.73	-	-	-	-	-	-	-	-	-	-	10	-	20	8	10	40	14	120	62	-	-	-	-	-	-	-	-	-
Screw-machine operators, automatic, class B.....	68	3.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	16	7	2	-	2	-	-	-	-	-	-	
Time.....	25	3.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	7	-	-	-	-	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class B.....	260	3.87	-	-	-	-	-	-	-	-	-	-	8	11	-	7	1	127	36	12	21	8	9	8	7	3	2	-	-	
Time.....	193	3.66	-	-	-	-	-	-	-	-	-	-	6	9	-	6	1	123	33	5	10	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class C ⁴	680	3.04	-	-	58	10	60	33	55	49	30	11	55	10	24	18	174	55	19	5	9	4	1	-	-	-	-	-	-	
Time.....	645	2.99	-	-	58	10	60	33	55	49	30	11	55	10	24	17	169	47	9	1	5	2	-	-	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class C (all timeworkers).....	71	2.79	-	-	9	5	17	-	-	5	-	3	12	-	9	1	10	-	-	-	-	-	-	-	-	-	-	-	-	
Grinding-machine operators, class C.....	187	3.32	-	-	-	5	35	-	-	5	-	-	7	5	1	66	40	10	4	6	3	-	-	-	-	-	-	-	-	
Time.....	157	3.22	-	-	-	5	35	-	-	5	-	-	7	5	-	61	32	-	1	4	2	-	-	-	-	-	-	-	-	
Milling-machine operators, class C (all timeworkers).....	63	3.18	-	-	-	-	-	-	-	12	-	5	23	-	-	5	6	6	6	6	-	-	-	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class C (all timeworkers).....	29	3.16	-	-	-	-	9	-	-	-	-	-	-	-	-	6	10	4	-	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, toolroom (operate one type of machine).....	172	4.05	-	-	-	-	-	-	-	-	-	-	19	-	-	-	8	20	39	47	12	3	2	4	-	15	3	-	-	
Time.....	168	4.05	-	-	-	-	-	-	-	-	-	-	19	-	-	-	8	18	37	47	12	3	2	4	-	15	3	-	-	
Machine-tool operators, toolroom (operate more than one type of machine).....	142	4.23	-	-	-	1	-	-	-	-	-	-	-	-	-	-	10	7	34	22	16	35	2	1	9	2	3	-	-	
Time.....	121	4.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	7	34	19	13	32	-	-	6	-	-	-	-	
Machinists, maintenance (all timeworkers).....	150	4.17	-	-	-	-	-	-	-	-	-	-	-	-	2	10	4	5	24	90	15	-	-	-	-	-	-	-	-	
Machinists, production (all timeworkers).....	583	4.08	-	-	-	-	-	-	-	-	-	-	-	-	-	20	50	24	47	241	96	59	46	-	-	-	-	-	-	
Mechanics, maintenance (all timeworkers).....	208	4.19	-	-	-	-	-	-	-	-	-	-	-	1	5	21	12	17	66	33	12	12	29	-	-	-	-	-	-	
Polishers and buffers, metal ⁵	66	3.79	-	-	-	-	-	-	-	-	-	-	7	4	16	2	16	-	1	11	-	-	-	-	-	-	-	1	6	
Polishing- and buffing-machine operators ⁵	88	3.92	-	-	-	-	-	-	2	-	5	-	-	6	5	35	1	3	2	-	1	5	7	4	-	1	7	11	-	
Punch-press operators, class A.....	46	3.63	-	-	-	-	-	-	-	6	-	3	-	-	2	1	9	3	11	6	2	1	1	1	-	-	-	-	-	
Time.....	40	3.61	-	-	-	-	-	-	-	6	-	3	-	-	2	1	5	3	11	4	2	1	1	1	-	-	-	-	-	
Punch-press operators, class B.....	113	3.28	-	18	-	3	2	-	-	2	-	-	10	6	11	11	8	25	3	3	3	1	4	2	1	-	-	-	-	
Time.....	97	3.10	-	18	-	3	2	-	-	2	-	-	10	6	11	11	7	25	-	2	-	-	-	-	-	-	-	-	-	
Set-up men, machine tools.....	199	3.76	-	-	-	-	-	-	-	-	40	-	-	-	1	-	5	19	58	50	12	14	-	-	-	-	-	-	-	
Time.....	185	3.76	-	-	-	-	-	-	-	-	40	-	-	-	-	4	16	49	50	12	14	-	-	-	-	-	-	-	-	
Tool and diemakers (jobbing) (all timeworkers).....	362	4.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	14	33	33	30	181	10	14	21	22	-	-	

See footnotes at end of table.

Table 19. Occupational earnings: Philadelphia, Pa.—N.J.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, April 1971)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			Under \$2.00	\$2.00 and under \$2.10	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40 and over
Men—Continued																												
Tool and diemakers (other than jobbing).....	267	\$4.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	14	5	17	39	42	22	86	2	-	28
Time.....	243	4.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	14	5	17	38	26	20	86	1	-	24
Tool clerks (all timeworkers).....	192	3.49	-	-	-	-	-	-	-	-	6	-	10	12	27	25	29	65	17	1	-	-	-	-	-	-	-	-
Welders, hand, class A.....	732	3.90	-	-	-	-	-	-	-	-	-	-	-	27	15	73	23	27	56	161	166	161	3	7	2	4	3	4
Time.....	658	3.85	-	-	-	-	-	-	-	-	-	-	27	15	73	22	25	48	157	147	144	-	-	-	-	-	-	-
Welders, hand, class B.....	241	3.61	-	-	-	-	-	-	5	20	37	21	-	-	2	-	28	24	101	2	-	1	-	-	-	-	-	-
Time.....	218	3.56	-	-	-	-	-	-	5	20	37	21	-	-	2	-	28	24	78	2	-	1	-	-	-	-	-	-
Welders, machine, class B.....	49	3.56	-	-	-	-	-	-	4	-	-	-	-	-	12	10	-	23	-	-	-	-	-	-	-	-	-	-
Time.....	48	3.55	-	-	-	-	-	-	4	-	-	-	-	-	12	10	-	22	-	-	-	-	-	-	-	-	-	-
Women																												
Assemblers, class B.....	55	3.01	-	-	-	-	25	-	2	-	6	-	-	5	3	-	-	2	4	4	1	-	3	-	-	-	-	-
Time.....	41	2.64	-	-	-	-	25	-	2	-	6	-	-	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Assemblers, class C.....	393	2.77	-	-	10	-	-	12	180	98	14	21	21	4	8	2	9	4	2	1	4	3	-	-	-	-	-	-
Time.....	328	2.67	-	-	10	-	-	12	180	98	6	6	10	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners (all timeworkers).....	22	2.88	-	-	-	-	8	1	1	-	-	2	-	1	5	4	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class B ⁵	24	3.29	-	-	-	-	-	-	-	-	-	-	-	5	4	6	3	2	4	-	-	-	-	-	-	-	-	-

¹ The Philadelphia Standard Metropolitan Statistical Area consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa.; and Burlington, Camden, and Gloucester Counties, N.J.
² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
³ Workers were distributed as follows: 6 at \$5.40 to \$5.60; 2 at \$5.60 to \$5.80; 4 at \$5.80 to \$6; 1 at \$6 to \$6.20; and 1 at \$6.20 to \$6.40.
⁴ Includes data for operators of other machine tools in addition to those shown separately.
⁵ Insufficient data to warrant publication of separate averages by method of wage payment, predominantly timeworkers.
⁶ Workers were distributed as follows: 1 at \$5.40 to \$5.60; 2 at \$5.80 to \$6; 1 at \$6 to \$6.20; 3 at \$6.20 to \$6.40; and 1 at \$6.40 to \$6.60.
⁷ Workers were distributed as follows: 2 at \$5.40 to \$5.60; 2 at \$5.60 to \$5.80; 1 at \$5.80 to \$6; 3 at \$6 to \$6.20; 2 at \$6.20 to \$6.40; and 1 at \$6.60 to \$6.80.

Table 20. Occupational earnings: Pittsburgh, Pa.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation ³	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of--																											
			\$2.20 and under \$2.30	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40		
Assemblers, class A	378	\$3.96	-	-	-	-	-	-	-	-	-	20	32	57	12	23	69	8	4	46	4	39	8	39	17	-	-	-	-	
Time	222	3.86	-	-	-	-	-	-	-	-	-	-	-	-	49	12	3	69	8	42	-	35	4	-	-	-	-	-		
Assemblers, class B	245	3.76	-	-	-	-	-	-	1	-	15	4	64	11	11	19	15	-	45	12	16	12	16	4	-	-	-	-		
Time	185	3.53	-	-	-	-	-	-	1	-	15	4	64	11	11	19	15	-	45	-	-	-	-	-	-	-	-	-		
Assemblers, class C (all timeworkers)	37	3.00	-	-	11	-	-	-	11	-	-	3	9	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Carpenters, maintenance (all timeworkers)	27	3.85	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	12	-	-	-	-	-	-	-	-		
Electricians, maintenance (all timeworkers)	130	4.02	-	-	-	-	-	-	-	-	6	-	6	-	17	4	-	23	32	31	2	9	-	-	-	-	-	-		
Inspectors, class A	189	4.09	-	-	-	-	-	-	-	-	-	2	19	42	14	-	2	-	47	5	15	25	10	-	-	-	-	8		
Time	181	4.11	-	-	-	-	-	-	-	-	-	2	19	38	10	-	2	-	47	5	15	25	10	-	-	-	-	8		
Inspectors, class B	84	3.71	-	-	-	-	-	-	12	-	1	20	8	-	-	17	-	6	2	6	6	-	-	-	-	-	12	-		
Time	56	3.94	-	-	-	-	-	-	12	-	1	-	-	-	-	17	-	6	2	6	6	-	-	-	-	-	12	-		
Inspectors, class C	39	3.51	-	-	-	-	-	-	4	11	-	-	-	11	-	6	-	-	-	-	7	-	-	-	-	-	-	-		
Time	31	3.63	-	-	-	-	-	-	-	7	6	-	-	11	-	6	-	-	-	-	7	-	-	-	-	-	-	-		
Janitors, porters, and cleaners (all timeworkers)	123	2.90	11	9	1	6	1	15	44	18	-	-	-	15	-	3	-	-	-	-	-	-	-	-	-	-	-	-		
Laborers, material handling (all timeworkers)	161	2.95	-	-	-	48	4	15	55	4	-	16	9	1	9	-	-	-	-	-	-	-	-	-	-	-	-	-		
Machine-tool operators, production, class A ⁵	1,978	3.88	-	-	-	-	-	-	4	43	33	26	76	262	283	180	203	81	117	212	142	91	66	60	54	42	3	-		
Time	1,534	3.70	-	-	-	-	-	-	-	43	21	26	76	262	271	172	195	45	109	149	106	41	18	-	-	-	-	-		
Incentive	444	4.50	-	-	-	-	-	-	4	-	12	-	-	-	12	8	8	36	8	63	36	50	48	60	54	42	3	-		
Automatic-lathe operators, class A	63	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	9	12	28	8	-	-	-	-	-	-		
Time	7	3.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	1	-	-	-	-	-	-	-	-	-		
Drill-press operators, radial, class A ⁶	122	3.50	-	-	-	-	-	-	-	-	-	54	39	3	2	8	1	-	15	-	-	-	-	-	-	-	-	-		
Drill-press operators, single- or multiple-spindle, class A	20	3.67	-	-	-	-	-	-	-	-	5	-	-	6	1	-	4	-	4	-	-	-	-	-	-	-	-	-		
Time	12	3.45	-	-	-	-	-	-	-	5	-	-	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Engine-lathe operators, class A	314	4.04	-	-	-	-	-	-	-	-	-	-	5	60	35	54	2	-	67	8	20	40	-	17	6	-	-			
Time	248	3.84	-	-	-	-	-	-	-	-	-	-	5	60	35	54	2	-	63	4	10	15	-	-	-	-	-			
Incentive	66	4.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	10	25	-	17	6	-			
Grinding-machine operators, class A	329	3.94	-	-	-	-	-	-	4	-	-	11	61	31	28	18	22	8	31	47	42	17	9	-	-	-	-			
Time	249	3.79	-	-	-	-	-	-	-	-	-	11	61	31	20	18	14	8	31	43	12	-	-	-	-	-	-			
Incentive	80	4.38	-	-	-	-	-	-	4	-	-	-	-	-	8	-	-	8	-	-	30	17	9	-	-	-	-			
Milling-machine operators, class A	330	3.74	-	-	-	-	-	-	34	4	9	9	30	99	40	6	24	-	25	3	12	4	13	-	15	3	-			
Time	251	3.54	-	-	-	-	-	-	34	-	9	9	30	87	40	6	12	-	9	3	12	-	-	-	-	-	-			
Incentive	79	4.37	-	-	-	-	-	-	-	4	-	-	-	12	-	-	-	-	16	-	-	4	13	-	15	3	-			
Screw-machine operators, automatic, class A ⁶	12	3.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	4	-	-	-	-	-	-	-	-			
Turret-lathe operators, hand (including hand screw machine), class A ⁶	149	3.77	-	-	-	-	-	-	-	4	-	-	36	44	15	8	-	21	4	-	3	-	-	-	14	-	-			
Machine-tool operators, production, class B ⁵	619	3.65	-	-	2	-	18	29	6	50	57	4	14	26	78	32	46	38	28	142	6	12	31	-	-	-	-			
Time	512	3.58	-	-	2	-	18	29	6	46	53	4	14	26	74	32	44	30	14	78	-	12	30	-	-	-	-			
Incentive	107	3.99	-	-	-	-	-	-	-	4	-	-	4	-	4	-	8	14	8	64	6	-	1	-	-	-	-			
Drill-press operators, single- or multiple-spindle, class B ⁵	44	3.17	-	-	-	-	-	18	-	4	8	2	-	4	-	8	-	-	-	-	-	-	-	-	-	-	-			
Grinding-machine operators, class B	152	3.73	-	-	2	-	-	11	-	22	-	-	-	16	8	8	-	-	81	4	-	-	-	-	-	-				
Time	104	3.54	-	-	2	-	-	11	-	22	-	-	-	16	8	8	-	-	37	-	-	-	-	-	-	-				
Milling-machine operators, class B	58	3.46	-	-	-	-	-	18	-	-	-	-	6	-	18	-	-	9	-	1	1	-	-	-	-	-				
Time	57	3.43	-	-	-	-	-	18	-	-	-	6	-	18	-	-	9	-	5	-	1	-	-	-	-	-				

See footnotes at end of table.

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Table 20. Occupational earnings: Pittsburgh, Pa.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation ³	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40
			and under \$2.30	- \$2.40	- \$2.50	- \$2.60	- \$2.70	- \$2.80	- \$2.90	- \$3.00	- \$3.10	- \$3.20	- \$3.30	- \$3.40	- \$3.50	- \$3.60	- \$3.70	- \$3.80	- \$3.90	- \$4.00	- \$4.20	- \$4.40	- \$4.60	- \$4.80	- \$5.00	- \$5.20	- \$5.40	and over
Machine-tool operators, production, class B ⁵ —Continued																												
Turret-lathe operators, hand (including hand screw machine), class B.....	39	\$3.75	-	-	-	-	-	-	-	-	-	-	4	11	2	6	2	-	-	12	2	-	-	-	-	-	-	-
Time.....	37	3.71	-	-	-	-	-	-	-	-	-	-	4	11	2	6	2	-	-	12	-	-	-	-	-	-	-	-
Machine-tool operators, production, class C ⁵	218	2.97	36	-	-	36	9	9	-	22	8	-	34	-	22	8	12	12	-	10	-	-	-	-	-	-	-	-
Time.....	202	2.92	36	-	-	36	9	9	-	22	8	-	34	-	22	8	8	-	-	10	-	-	-	-	-	-	-	-
Grinding-machine operators, class C.....	72	3.32	-	-	-	-	9	9	-	-	8	-	8	-	-	8	8	12	-	10	-	-	-	-	-	-	-	-
Time.....	60	3.24	-	-	-	-	9	9	-	-	8	-	8	-	-	8	8	-	-	10	-	-	-	-	-	-	-	-
Machine-tool operators, toolroom (operate one type of machine).....	118	4.32	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	8	-	33	-	76	-	-	-	-	-	-
Time.....	104	4.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	33	-	63	-	-	-	-	-	-
Machine-tool operators, toolroom (operate more than one type of machine) (all timeworkers).....	134	4.04	-	-	-	-	-	-	-	-	-	-	-	16	4	5	21	13	11	10	16	38	-	-	-	-	-	-
Machinists, production (all timeworkers).....	144	4.03	-	-	-	-	-	1	-	-	-	4	-	4	-	26	13	12	-	26	14	37	5	2	-	-	-	-
Mechanics, maintenance (all timeworkers).....	121	4.00	-	-	-	-	-	-	2	-	-	-	-	-	-	14	-	9	18	75	3	-	-	-	-	-	-	-
Polishing- and buffing-machine operators (all timeworkers).....	25	3.14	-	-	-	-	-	-	-	7	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tool and diemakers (jobbing) (all timeworkers).....	386	4.27	-	-	-	2	-	-	-	-	-	-	2	-	-	-	7	-	-	135	22	183	35	-	-	-	-	-
Tool and diemakers (other than jobbing).....	76	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	7	47	5	4	-	11	-	-	-	-
Time.....	72	4.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	7	47	5	-	11	-	-	-	-	-
Tool clerks (all timeworkers).....	64	3.23	-	-	2	-	-	4	6	8	15	17	1	-	-	-	7	-	4	-	-	-	-	-	-	-	-	-
Welders, hand, class A.....	269	3.94	-	-	-	-	-	-	-	-	1	-	12	40	26	84	4	8	-	35	6	19	-	4	-	-	30	-
Time.....	255	3.91	-	-	-	-	-	-	-	-	1	-	12	40	26	84	4	8	-	35	2	13	-	-	-	-	30	-

¹ The Pittsburgh Standard Metropolitan Statistical Area consists of Allegheny, Beaver, Washington, and Westmoreland Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

³ Data limited to men workers.

⁴ Includes 4 workers at \$2 to \$2.10.

⁵ Includes data for operators of other machine tools in addition to those shown separately.

⁶ Insufficient data to warrant publication of separate averages by method of wage payment, predominantly timeworkers.

Table 21. Occupational earnings: Portland, Oreg.—Wash.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation ³	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																								
			Under \$3.00	\$3.00 and under \$3.10	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.10	\$4.20	\$4.30	\$4.40	\$4.50	\$4.60	\$4.70	\$4.80	\$4.90	\$5.00	\$5.10	\$5.20	
Assemblers, class A.....	370	\$4.44	-	-	-	-	-	-	-	-	-	-	-	-	-	21	45	250	50	4	-	-	-	-	-	-	-
Assemblers, class B.....	162	3.91	-	-	-	-	-	-	-	9	36	33	44	23	5	6	-	-	6	-	-	-	-	-	-	-	-
Assemblers, class C.....	10	3.63	-	-	-	-	-	-	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class A.....	55	4.47	-	-	-	-	-	-	-	-	-	-	-	-	7	1	24	16	7	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners.....	56	3.36	5	2	-	19	2	-	4	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laborers, material handling.....	49	3.76	-	-	-	-	7	-	6	10	1	1	11	13	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class A ⁴	644	4.46	-	-	-	-	-	-	-	-	-	-	-	1	12	48	26	445	41	49	22	-	-	-	-	-	-
Automatic-lathe operators, class A.....	35	4.36	-	-	-	-	-	-	-	-	-	-	-	1	17	1	9	7	-	-	-	-	-	-	-	-	-
Drill-press operators, radial, class A.....	52	4.43	-	-	-	-	-	-	-	-	-	-	-	1	7	-	39	5	-	-	-	-	-	-	-	-	-
Engine-lathe operators, class A.....	218	4.50	-	-	-	-	-	-	-	-	-	-	-	-	7	8	140	17	35	11	-	-	-	-	-	-	-
Grinding-machine operators, class A.....	11	4.41	-	-	-	-	-	-	-	-	-	-	-	2	-	-	9	-	-	-	-	-	-	-	-	-	-
Milling-machine operators, class A.....	77	4.49	-	-	-	-	-	-	-	-	-	-	-	1	6	1	50	2	6	11	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class A.....	144	4.45	-	-	-	-	-	-	-	-	-	-	-	1	3	9	4	119	-	8	-	-	-	-	-	-	-
Machine-tool operators, production, class B ⁴	196	3.87	-	-	-	-	1	38	11	3	20	95	3	12	7	-	-	6	-	-	-	-	-	-	-	-	-
Drill-press operators, radial, class B.....	60	3.93	-	-	-	-	-	-	-	-	4	52	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class B.....	25	3.72	-	-	-	-	1	3	11	2	1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class B.....	24	3.98	-	-	-	-	-	-	-	-	7	10	1	-	6	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, toolroom (operate more than one type of machine).....	27	4.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6	18	-	-	-	-	-	-	-	-
Machinists, maintenance.....	14	4.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	1	4	-	-	-	-	-	-	-	-
Tool and diemakers (other than jobbing).....	11	4.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	6	1	-	2	-	-	1	-	
Tool clerks.....	7	3.97	-	-	-	-	-	2	1	-	-	-	2	-	-	-	-	2	2	-	-	-	-	-	-	-	-
Welders, hand, class A.....	410	4.46	-	-	-	-	-	-	-	-	-	-	-	2	15	47	281	46	8	11	-	-	-	-	-	-	-

¹ The Portland Standard Metropolitan Statistical Area consists of Clackamas, Multnomah, and Washington Counties, Oreg.; and Clark County, Wash.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

³ Data limited to men workers.

⁴ Includes data for operators of other machine tools in addition to those shown separately.

Table 22. Occupational earnings: St. Louis, Mo.—III.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00
			and under \$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00	and over
<u>Men</u>																												
Assemblers, class A.....	671	\$4.42	-	-	-	-	-	-	-	2	4	2	1	-	1	29	4	332	2	85	90	46	1	-	67	-	5	-
Time.....	643	4.39	-	-	-	-	-	-	-	2	4	2	1	-	1	29	3	332	2	84	84	33	-	-	66	-	-	-
Assemblers, class B.....	566	3.57	-	-	-	-	10	53	21	12	153	82	2	36	29	73	27	6	5	4	9	12	11	4	-	7	10	
Time.....	415	3.26	-	-	-	10	48	21	12	148	82	2	36	24	8	24	-	-	-	-	-	-	-	-	-	-	-	
Assemblers, class C.....	560	3.16	-	-	3	13	16	-	8	102	24	296	30	38	-	11	-	3	-	1	-	-	14	-	-	1	-	
Time.....	541	3.10	-	-	3	13	16	-	8	102	24	296	30	38	-	11	-	-	-	-	-	-	-	-	-	-	-	
Carpenters, maintenance (all timeworkers).....	10	4.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	1	1	3	-	-	-	-	-	-	
Electricians, maintenance.....	99	4.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	24	3	41	4	23	-	1	-	-	-	
Time.....	89	4.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	24	1	40	1	19	-	1	-	-	-	
Inspectors, class A.....	90	4.71	-	-	-	-	-	-	-	-	-	1	8	13	5	1	-	2	3	1	12	4	16	20	1	3	-	
Time.....	56	4.30	-	-	-	-	-	-	-	-	-	1	8	13	5	1	-	2	2	-	12	-	10	-	2	-	-	
Inspectors, class B ^{3a} /.....	107	3.97	-	-	-	-	-	-	-	1	-	-	-	14	7	69	5	1	-	-	-	7	1	1	1	1	-	-
Janitors, porters, and cleaners (all timeworkers).....	222	3.05	414	29	5	7	1	9	25	29	12	6	3	2	8	60	12	-	-	-	-	-	-	-	-	-	-	
Laborers, material handling.....	397	3.16	-	-	14	2	3	8	6	11	217	15	13	39	36	33	-	-	-	-	-	-	-	-	-	-	-	
Time.....	375	3.14	-	-	14	2	3	8	6	11	217	11	13	37	24	29	-	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class A ⁵	1,095	5.01	-	-	-	-	-	-	-	1	-	1	3	3	13	6	64	38	84	207	140	78	181	161	47	22	46	
Time.....	689	4.84	-	-	-	-	-	-	-	-	-	-	-	-	7	59	37	39	182	117	51	138	51	2	6	-		
Automatic-lathe operators, class A ^{3a} /.....	62	4.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	36	9	-	2	3	2	-	-	
Drill-press operators, radial, class A ^{3a} /.....	43	4.68	-	-	-	-	-	-	-	1	-	1	1	2	1	2	1	1	-	17	2	-	13	1	-	-	-	
Engine-lathe operators, class A ^{3b} /.....	134	5.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	9	2	4	62	39	10	-	-
Grinding-machine operators, class A.....	71	4.89	-	-	-	-	-	-	-	-	-	-	-	1	-	-	6	-	-	30	1	15	7	8	1	1	1	
Time.....	49	4.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	29	-	12	4	-	-	-	-	
Milling-machine operators, class A.....	152	5.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	27	14	20	24	14	33	14	2
Time.....	87	4.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	26	12	18	21	4	2	-	-
Screw-machine operators, automatic, class A ^{3a} /.....	55	4.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	2	2	4	6	1	1	1	2	-	-
Turret-lathe operators, hand (including hand screw machine), class A.....	104	4.67	-	-	-	-	-	-	-	-	-	-	2	-	11	3	10	-	4	28	21	3	15	1	3	1	2	
Time.....	70	4.66	-	-	-	-	-	-	-	-	-	-	-	-	6	-	8	-	-	26	-	12	-	-	-	-	-	-
Machine-tool operators, production, class B ⁵	578	3.86	-	-	-	-	-	3	2	44	19	22	9	147	93	66	35	29	38	15	19	11	6	9	7	3	1	
Time.....	384	3.64	-	-	-	-	-	3	2	44	19	21	5	139	57	36	15	-	24	-	12	6	-	1	-	-	-	
Incentive.....	194	4.29	-	-	-	-	-	-	-	-	-	1	4	8	36	30	20	29	14	15	7	5	6	8	7	3	1	
Drill-press operators, radial, class B ⁶	46	4.45	-	-	-	-	3	2	9	-	1	-	-	2	-	6	-	-	1	-	2	3	7	6	3	1	-	
Drill-press operators, single- or multiple-spindle, class B.....	74	4.02	-	-	-	-	-	-	-	-	12	-	2	4	12	15	15	-	8	4	2	-	-	-	-	-	-	
Time.....	36	3.65	-	-	-	-	-	-	-	-	12	-	2	4	12	6	-	-	-	-	-	-	-	-	-	-	-	
Grinding-machine operators, class B.....	54	4.08	-	-	-	-	-	-	-	-	7	1	-	11	2	2	2	7	13	2	-	6	-	1	-	-	-	
Time.....	24	3.75	-	-	-	-	-	-	-	-	7	-	-	11	-	-	-	-	-	-	-	6	-	-	-	-	-	
Milling-machine operators, class B.....	54	3.96	-	-	-	-	-	-	-	7	-	-	3	13	8	3	1	4	1	-	13	-	-	-	1	-	-	
Time.....	43	3.86	-	-	-	-	-	-	-	7	-	-	3	13	8	-	-	-	-	12	-	-	-	-	-	-	-	
Screw-machine operators, automatic, class B.....	37	4.04	-	-	-	-	-	-	-	-	-	-	-	6	17	-	3	2	-	3	2	1	3	-	-	-	-	
Time.....	26	3.68	-	-	-	-	-	-	-	-	-	-	-	6	17	-	3	-	-	-	-	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class B (all timeworkers).....	71	3.64	-	-	-	-	-	-	-	-	-	1	2	46	2	20	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 22. Occupational earnings: St. Louis, Mo.—III.—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$2.20 and under	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00 and over
			\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00
Men—Continued																												
Machine-tool operators, production, class C ⁵	194	\$3.53	-	-	-	-	1	-	8	-	3	106	-	16	33	4	12	-	-	-	1	1	2	4	3	-	-	
Time	146	3.33	-	-	-	-	1	-	8	-	3	106	-	13	9	-	6	-	-	-	-	-	-	-	-	-	-	
Incentive	48	4.15	-	-	-	-	-	-	-	-	-	-	-	3	24	4	6	-	-	-	1	1	2	4	3	-	-	
Drill-press operators, single- or multiple-spindle, class C	62	3.46	-	-	-	-	1	-	8	-	-	24	-	-	24	-	4	-	-	-	1	-	-	-	-	-	-	
Time	42	3.28	-	-	-	-	1	-	8	-	-	24	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, toolroom (operate one type of machine)	48	4.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8	-	1	27	2	-	1	-	8	-	
Time	39	4.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8	-	1	20	1	-	-	-	8	-	
Machine-tool operators, toolroom (operate more than one type of machine) (all timeworkers)	237	5.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	6	39	24	42	98	16	-	
Machinists, maintenance (all timeworkers)	63	4.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	8	3	-	3	33	3	4	-	-	-	
Machinists, production (all timeworkers)	577	5.11	-	-	-	-	-	-	-	8	-	8	16	8	24	-	-	-	-	60	-	145	2	222	84	-	-	
Mechanics, maintenance	76	4.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	17	2	9	45	-	-	-	-	-	-	
Time	74	4.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	17	2	7	45	-	-	-	-	-	-	
Polishing- and buffing-machine operators ³	42	4.01	-	-	-	-	-	4	-	-	-	2	1	4	10	10	2	5	2	1	1	-	-	-	-	-	-	
Punch-press operators, class A	239	3.77	-	-	-	-	-	-	-	73	-	1	7	15	8	20	20	77	-	13	-	-	5	-	-	-	-	
Time	202	3.64	-	-	-	-	-	-	-	73	-	1	7	15	8	20	20	69	-	-	-	-	-	-	-	-	-	
Punch-press operators, class B (all timeworkers)	112	3.31	-	-	-	-	7	1	12	-	49	12	11	20	-	-	-	-	-	-	-	-	-	-	-	-	-	
Set-up men, machine tools (all timeworkers)	77	4.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	25	25	1	2	8	4	-	-	-	
Tool and diemakers (jobbing) (all timeworkers)	418	5.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	313	799	
Tool and diemakers (other than jobbing)	229	5.25	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	5	1	9	1	32	108	36	4	26	1	
Time	180	5.23	-	-	-	-	-	-	-	-	-	-	-	6	-	-	5	-	3	-	28	93	21	-	24	-	-	
Tool clerks (all timeworkers)	29	3.52	-	-	-	1	-	-	-	-	6	-	6	1	3	11	1	-	-	-	-	-	-	-	-	-	-	
Welders, hand, class A	410	4.54	-	-	-	-	-	-	-	-	-	1	22	-	1	50	7	229	10	45	7	24	2	12	-	-	-	
Time	400	4.54	-	-	-	-	-	-	-	-	-	-	22	-	1	48	5	229	10	44	6	22	1	12	-	-	-	
Welders, hand, class B (all timeworkers)	86	3.36	-	-	-	-	-	4	-	17	4	14	46	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
Women																												
Assemblers, class B	91	3.29	-	-	-	-	3	5	8	5	20	27	1	8	4	7	-	2	-	-	-	-	1	-	-	-	-	
Time	66	3.25	-	-	-	-	3	-	3	-	20	27	1	8	4	-	-	-	-	-	-	-	-	-	-	-	-	
Assemblers, class C	779	3.26	-	-	-	158	-	288	96	21	-	6	15	37	26	34	33	28	23	7	-	-	-	5	2	-	-	
Time	612	2.97	-	-	-	158	-	288	96	21	-	6	15	28	-	-	-	-	-	-	-	-	-	-	-	-	-	
Inspectors, class B (all timeworkers)	15	3.62	-	-	-	-	-	-	-	-	-	-	-	10	2	3	-	-	-	-	-	-	-	-	-	-	-	
Inspectors, class C ³ /a/	225	3.14	-	-	28	-	1	90	49	2	3	-	-	35	7	-	2	-	3	-	-	5	-	-	-	-	-	
Janitors, porters, and cleaners (all timeworkers)	8	3.19	-	-	-	-	-	5	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class C ³ /a/	282	3.54	-	-	-	-	72	68	-	-	12	-	-	27	-	33	27	-	30	-	13	-	-	-	-	-	-	

¹ The St. Louis Standard Metropolitan Statistical Area consists of the city of St. Louis; the counties of Franklin, Jefferson, St. Charles, and St. Louis, Mo.; and the counties of Madison and St. Clair, Ill.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

³ Insufficient data to warrant publication of separate averages by method of wage payment; (a) predominantly timeworkers, or (b) predominantly incentive workers.

⁴ Includes 8 workers at \$ 2 to \$2.10.

⁵ Includes data for operators of other machine tools in addition to those shown separately.

⁶ Workers paid under time and incentive systems were divided equally.

⁷ All workers were at \$ 6 to \$6.20.

Table 23. Occupational earnings: San Francisco—Oakland, Calif.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation and sex	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$2.60 and under	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.10	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00 and over
Men																												
Assemblers, class A.....	170	\$4.77	-	-	-	-	-	-	-	-	-	-	-	3	-	12	3	3	8	79	20	-	42	-	-	-	-	-
Assemblers, class B.....	284	3.88	-	-	-	-	-	-	-	-	90	14	-	21	42	54	-	-	3	12	48	-	-	-	-	-	-	-
Assemblers, class C.....	103	3.63	-	-	-	-	-	-	-	-	-	54	4	40	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Electricians, maintenance.....	32	5.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	8	10	-	-	-	-	9
Inspectors, class A.....	122	4.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	3	11	1	65	21	1	-	-	-	-
Janitors, porters, and cleaners.....	46	3.55	-	1	1	-	1	-	-	2	2	27	6	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
Laborers, material handling.....	51	3.79	-	-	-	-	-	-	-	-	-	-	20	11	-	20	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production class A ⁴	623	5.11	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	-	17	64	178	125	-	174	60	-	-
Screw-machine operators, automatic, class A.....	91	5.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	42	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class A.....	48	4.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	21	-	-	-	-	-	-
Machine-tool operators, production, class B ⁴	290	3.96	-	-	3	2	3	-	-	-	4	-	-	37	21	94	28	-	98	-	-	-	-	-	-	-	-	-
Drill-press operators, radial, class B.....	21	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-	-	-	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle, class B.....	41	3.91	-	-	-	-	-	-	-	-	-	-	-	-	22	5	-	-	14	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class B.....	94	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	29	9	-	56	-	-	-	-	-	-	-	-	-
Milling-machine operators, class B.....	37	3.95	-	-	-	-	-	-	-	-	-	-	-	15	-	6	2	-	14	-	-	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class B.....	26	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	14	-	-	-	-	-	-	-	-	-
Machine-tool operators, toolroom (operate more than one type of machine).....	77	5.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	16	47	-	6	-	-	-	-
Machinists, maintenance.....	42	5.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	-	19	15	-	2	-	-	-
Machinists, production.....	542	4.94	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	28	16	-	181	109	16	132	28	14	14	-
Punch-press operators, class B.....	22	3.88	-	-	-	-	-	-	-	-	-	-	-	15	1	-	-	-	6	-	-	-	-	-	-	-	-	-
Tool and diemakers (jobbing).....	123	5.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
Tool and diemakers (other than jobbing).....	137	5.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	74	8	14
Tool clerks.....	43	3.89	-	-	-	-	-	-	-	-	1	1	-	7	10	10	14	-	-	-	-	-	-	-	-	-	-	-
Welders, hand, class A.....	335	4.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	118	129	15	4	64	-	-	-	-
Women																												
Assemblers, class B.....	146	3.15	9	10	14	9	61	-	-	-	-	-	-	-	43	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ The San Francisco—Oakland Standard Metropolitan Statistical Area consists of Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. All workers covered by the study were paid on a time basis.

³ All workers were at \$6.60 to \$6.80.

⁴ Includes data for operators of other machine tools in addition to those shown separately.

⁵ All workers were at \$6 to \$6.20.

Table 24. Occupational earnings: Tulsa, Okla.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation ³	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																											
			\$1.90 and under \$2.00	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.10	\$4.20	\$4.30	\$4.40	\$4.50	
			2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	4.00	4.10	4.20	4.30	4.40	4.50		
Assemblers, class A.....	270	\$3.33	-	-	-	-	-	-	-	-	-	-	4	24	20	25	92	5	31	9	15	45	-	-	-	-	-	-	-	-
Assemblers, class B.....	275	2.98	-	-	-	-	4	-	1	2	15	67	66	42	39	30	6	-	3	-	-	-	-	-	-	-	-	-	-	-
Assemblers, class C.....	166	2.73	9	2	-	9	2	10	-	-	41	27	1	14	48	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electricians, maintenance.....	13	3.41	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3	3	2	-	2	-	-	-	-	-	-	-	-	-
Inspectors, class A.....	81	3.39	-	-	-	-	-	-	-	-	-	-	-	1	2	5	12	15	31	2	10	-	3	-	-	-	-	-	-	-
Inspectors, class B.....	24	3.14	-	-	-	-	-	1	-	1	2	1	1	2	4	5	2	5	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class C.....	9	2.74	-	-	1	-	-	-	-	-	4	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners.....	67	2.47	1	4	9	8	14	5	4	4	8	-	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laborers, material handling.....	78	2.50	-	3	-	9	2	24	12	6	20	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class A ⁴	422	3.37	-	-	-	-	-	-	-	-	6	4	8	22	22	69	116	97	19	16	10	-	28	5	-	-	-	-	-	-
Automatic-lathe operators, class A.....	90	3.33	-	-	-	-	-	-	-	-	-	-	1	2	4	31	24	18	4	6	-	-	-	-	-	-	-	-	-	-
Drill-press operators, radial, class A.....	30	3.15	-	-	-	-	-	-	-	-	6	3	2	8	6	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
Engine-lathe operators, class A.....	69	3.35	-	-	-	-	-	-	-	-	-	-	-	6	1	5	19	36	1	1	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators, class A.....	38	3.38	-	-	-	-	-	-	-	-	-	-	1	2	1	9	8	10	3	1	-	-	3	-	-	-	-	-	-	-
Milling-machine operators, class A.....	31	3.28	-	-	-	-	-	-	-	-	-	1	4	-	3	2	8	13	-	-	-	-	-	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class A.....	82	3.42	-	-	-	-	-	-	-	-	-	-	-	2	6	20	30	6	3	-	-	-	15	-	-	-	-	-	-	-
Machine-tool operators, production, class B ⁴	212	3.01	-	-	-	-	-	6	-	22	24	9	26	45	34	20	4	7	10	5	-	-	-	-	-	-	-	-	-	-
Drill-press operators, radial, class B.....	27	2.84	-	-	-	-	-	-	-	2	10	-	12	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine), class B.....	31	2.92	-	-	-	-	-	-	1	13	2	4	2	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class C.....	87	2.95	-	-	-	4	-	3	-	1	13	2	27	9	23	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, toolroom (operate more than one type of machine).....	16	3.52	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	2	-	11	-	-	-	-	-	-	-	-	-	-
Machinists, production.....	313	3.88	-	-	-	-	-	-	-	-	-	-	-	-	9	13	22	25	22	16	27	3	21	5	15	135	-	-	-	-
Mechanics, maintenance.....	33	3.43	-	-	-	-	-	-	-	-	-	-	-	1	1	2	16	3	1	7	-	2	-	-	-	-	-	-	-	-
Tool and diemakers (other than jobbing).....	33	3.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	8	6	4	2	1	-	-	-	-	-
Tool clerks.....	26	2.93	-	-	1	-	-	-	-	6	-	9	9	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welders, hand, class A.....	198	3.54	-	-	-	-	-	-	-	-	-	-	-	-	-	12	23	49	75	8	21	-	-	-	-	-	-	-	-	-
Welders, hand, class B.....	42	3.26	-	-	-	-	-	-	-	-	-	-	-	9	6	6	21	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ The Tulsa Standard Metropolitan Statistical Area consists of Creek, Osage, and Tulsa Counties.
² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
³ Data limited to men workers.
⁴ Includes data for operators of other machine tools in addition to those shown separately.

Table 25. Occupational earnings: Worcester, Mass.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation ³	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			\$2.10 and under	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.20 and over
			\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	over	
Assemblers, class A	251	\$3.97	-	-	-	-	-	-	-	1	2	8	-	6	4	3	16	22	35	53	52	31	9	5	1	-	-	3	
Time	185	3.85	-	-	-	-	-	-	1	2	8	-	6	4	3	16	21	34	49	32	9	-	-	-	-	-	-		
Assemblers, class B	174	3.47	-	-	-	-	-	1	-	-	4	14	54	9	20	21	18	8	9	-	8	4	-	2	2	-	-		
Time	114	3.36	-	-	-	-	-	1	-	-	-	14	45	9	12	12	16	5	-	-	-	-	-	-	-	-	-		
Assemblers, class C	37	3.35	-	-	-	-	-	-	-	1	3	17	6	4	2	1	-	-	1	2	1	-	-	-	-	-	-		
Time	24	3.27	-	-	-	-	-	-	-	1	1	16	2	3	1	-	-	-	-	-	-	-	-	-	-	-	-		
Carpenters, maintenance ^{a/}	6	3.73	-	-	-	-	-	-	-	-	-	-	-	1	2	1	-	-	1	-	-	-	-	-	-	-	-		
Electricians, maintenance	31	3.88	-	-	-	-	-	-	-	-	-	1	1	-	-	1	2	13	2	1	5	2	2	2	-	1	-		
Time	19	3.99	-	-	-	-	-	-	-	-	1	1	-	-	1	2	1	2	1	5	2	2	2	-	1	-	-		
Inspectors, class A	125	3.66	-	-	-	-	-	-	-	-	36	-	-	1	7	5	8	20	12	9	13	8	5	1	-	-	-		
Time	119	3.63	-	-	-	-	-	-	-	-	36	-	-	1	6	5	8	20	12	9	12	8	2	-	-	-	-		
Inspectors, class B (all timeworkers)	43	3.61	-	-	-	-	-	-	-	-	1	7	11	8	4	2	-	-	-	-	-	9	1	-	-	-	-		
Janitors, porters, and cleaners	96	2.81	3	-	1	-	15	19	28	27	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Time	80	2.78	3	-	1	-	15	19	28	11	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Laborers, material handling (all timeworkers)	71	2.76	-	-	4	-	44	-	4	-	4	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Machine-tool operators, production, class A ⁵	712	3.82	-	-	-	-	-	-	-	-	11	37	46	34	60	42	53	58	95	59	106	48	26	19	7	4	7		
Time	574	3.72	-	-	-	-	-	-	-	-	10	36	42	33	57	38	46	51	84	45	89	32	10	1	-	-	-		
Incentive	138	4.26	-	-	-	-	-	-	-	-	1	1	4	1	3	4	7	11	14	17	16	16	18	7	4	7	7		
Automatic-lathe operators, class A ^{4b/}	11	3.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	5	-	-	-	-	-	-	-		
Drill-press operators, radial, class A	52	3.72	-	-	-	-	-	-	-	-	-	9	-	9	4	8	9	4	2	4	-	-	-	-	-	1	2		
Time	43	3.59	-	-	-	-	-	-	-	-	-	9	-	9	4	5	9	3	4	-	-	-	-	-	-	-	-		
Incentive	9	4.33	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1	2	-	-	-	-	-	-	1	6		
Drill-press operators, single- or multiple-spindle, class A	33	3.92	-	-	-	-	-	-	-	-	-	5	4	2	-	3	-	3	7	1	1	3	1	-	2	1	-		
Time	18	3.73	-	-	-	-	-	-	-	-	-	1	4	1	-	2	-	3	6	1	-	-	-	-	-	-	-		
Incentive	15	4.15	-	-	-	-	-	-	-	-	-	4	-	1	-	1	-	-	1	-	1	3	1	-	2	1	-		
Engine-lathe operators, class A	61	3.83	-	-	-	-	-	-	-	-	2	4	11	2	5	2	2	4	6	13	5	1	3	1	-	-	-		
Time	53	3.76	-	-	-	-	-	-	-	-	2	4	11	1	5	2	2	4	5	10	5	1	1	-	-	-	-		
Grinding-machine operators, class A	167	3.73	-	-	-	-	-	-	-	-	22	20	8	4	5	4	15	44	11	17	8	6	2	1	-	-	-		
Time	147	3.67	-	-	-	-	-	-	-	-	22	20	8	4	4	3	11	41	11	16	7	-	-	-	-	-	-		
Milling-machine operators, class A	144	3.85	-	-	-	-	-	-	-	9	1	8	4	25	7	16	5	5	9	24	6	12	6	2	1	4	-		
Time	108	3.68	-	-	-	-	-	-	-	8	-	8	4	24	4	14	4	4	7	20	4	7	-	-	-	-	-		
Screw-machine operators, automatic, class A ^{4b/}	10	4.13	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	2	2	-	2	-	1	-	-		
Turret-lathe operators, hand (including hand screw machine), class A	88	3.78	-	-	-	-	-	-	-	-	10	-	7	3	-	14	16	11	5	6	13	2	1	-	-	-	-		
Time	66	3.66	-	-	-	-	-	-	-	-	10	-	6	3	-	14	14	10	2	3	4	-	-	-	-	-	-		
Incentive	22	4.16	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	1	3	3	9	2	1	-	-	-	-		
Machine-tool operators, production, class B ⁵	374	3.43	-	-	-	-	25	4	26	41	17	30	37	25	43	26	43	10	17	10	7	9	1	-	1	2	-		
Time	221	3.35	-	-	-	-	5	4	18	38	13	12	23	16	34	25	28	1	3	1	-	-	-	-	-	-	-		
Automatic-lathe operators, class B	12	3.34	-	-	-	-	-	-	2	-	-	-	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-		
Time	8	3.32	-	-	-	-	-	-	2	-	-	-	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-		
Drill-press operators, radial, class B	22	3.51	-	-	-	-	-	-	-	3	1	2	-	2	1	9	2	-	-	2	-	-	-	-	-	-	-		
Time	14	3.47	-	-	-	-	-	-	-	3	1	-	-	-	1	9	-	-	-	-	-	-	-	-	-	-	-		
Engine-lathe operators, class B	42	3.43	-	-	-	-	-	-	-	7	12	-	3	2	1	4	7	-	4	-	2	-	-	-	-	-	-		
Time	32	3.35	-	-	-	-	-	-	-	7	10	-	3	-	1	4	7	-	-	-	-	-	-	-	-	-	-		
Grinding-machine operators, class B	83	3.37	-	-	-	-	-	-	11	22	3	5	9	4	14	1	5	1	-	-	2	6	-	-	-	-	-		
Time	71	3.27	-	-	-	-	-	-	11	20	1	5	9	4	14	1	5	1	-	-	-	-	-	-	-	-	-		

See footnotes at end of table.

Table 25. Occupational earnings: Worcester, Mass.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1970)

Occupation ³	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$2.10 and under	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20 and over
			\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	over
Machine-tool operators, production, class B ⁵ —Continued																												
Milling-machine operators, class B	72	\$3.55	-	-	-	-	-	8	-	-	1	-	14	-	-	8	5	23	-	6	1	3	2	1	-	-	-	
Time	28	3.66	-	-	-	-	-	-	-	-	-	-	2	-	-	7	4	15	-	-	-	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw machine), class B	22	3.22	-	-	-	-	-	-	4	5	-	1	-	2	5	2	3	-	-	-	-	-	-	-	-	-	-	
Time	17	3.17	-	-	-	-	-	-	4	5	-	1	-	-	2	2	3	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class C ⁵	36	2.97	-	-	-	7	1	9	-	-	3	1	10	4	-	-	-	-	-	-	1	-	-	-	-	-	-	
Time	35	2.97	-	-	-	7	1	9	-	-	2	1	10	4	-	-	-	-	-	-	1	-	-	-	-	-	-	
Drill-press operators, single- or multiple-spindle, class C (all timeworkers)	11	2.83	-	-	-	4	-	5	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
Grinding-machine operators, class C (all timeworkers)	9	3.18	-	-	-	-	-	-	-	-	2	1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mechanists, production	76	3.92	-	-	-	-	-	-	-	-	-	-	-	2	-	-	5	-	8	32	28	-	-	1	-	-	-	
Time	69	3.90	-	-	-	-	-	-	-	-	-	-	-	2	-	-	5	-	8	28	26	-	-	-	-	-	-	
Mechanics, maintenance (all timeworkers)	23	3.85	-	-	-	-	-	-	3	-	-	-	-	-	-	-	2	1	5	-	10	1	1	-	-	-	-	
Tool and diemakers (jobbing) (all timeworkers)	103	3.59	-	-	-	-	-	-	-	-	-	8	8	14	12	-	10	34	8	5	-	4	-	-	-	-	-	
Tool and diemakers (other than jobbing)	56	4.01	-	-	-	-	-	-	-	-	-	-	-	1	-	16	5	5	4	7	7	4	7	-	-	-	-	
Time	45	3.87	-	-	-	-	-	-	-	-	-	-	-	1	-	16	5	5	4	7	6	1	-	-	-	-	-	
Tool clerks	34	2.94	-	-	3	4	4	4	4	2	3	8	3	-	1	-	-	1	-	-	-	-	-	-	-	-	-	
Time	32	2.88	-	-	3	4	4	4	4	2	3	8	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Welders, hand, class A	31	3.96	-	-	-	-	-	-	-	-	-	2	-	1	1	1	2	4	6	7	4	3	-	-	-	-	-	
Time	21	3.89	-	-	-	-	-	-	-	-	-	2	-	1	1	1	2	2	2	2	7	3	-	-	-	-	-	
Incentive	10	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	-	1	3	-	-	-	-	

¹ The Worcester Standard Metropolitan Statistical Area consists of the city of Worcester, and the towns of Auburn, Berlin, Boylston, Brookfield, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, Northbridge, North Brookfield, Oxford, Paxton, Shrewsbury, Spencer, Sterling, Sutton, Upton, Westborough, and West Boylston in Worcester County.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

³ Data limited to men workers.

⁴ Insufficient data to warrant publication of separate averages by method of wage payment; (a) predominantly timeworkers, or (b) predominantly incentive workers.

⁵ Includes data for operators of other machine tools in addition to those shown separately.

⁶ Workers were distributed as follows: 1 at \$5.20 to \$5.40; and 1 at \$6 to \$6.20.

Table 26. Method of wage payment: Plantworkers

(Percent of production workers in machinery manufacturing by method of wage payment, winter 1970-71)

Method of wage payment ¹	Northeast								South				North Central						West			
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Phila-delphia	Pitts-burgh	Worces-ter	Balti-more	Dallas	Houston	Tulsa	Chi-cago	Cleve-land	De-troit	Mil-waukee	Minne-apolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	Port-land	San Fran-cisco-Oakland
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Time-rated workers	86	77	74	86	89	89	80	77	89	95	95	100	85	83	97	63	98	86	96	97	98	100
Formal plans	71	69	72	58	48	73	68	76	73	76	78	95	72	48	81	58	89	84	84	75	94	94
Single rate	16	35	19	23	6	17	41	2	3	4	4	26	15	18	41	12	31	25	27	9	85	86
Range of rates	55	34	53	35	42	56	27	74	70	72	74	69	57	44	40	46	58	59	57	66	9	9
Individual rates	15	8	2	28	41	16	11	1	16	19	17	5	13	21	17	5	9	1	12	22	3	3
Incentive workers	14	23	26	14	11	11	20	23	11	5	5	-	15	17	3	37	2	14	4	3	2	-
Individual piecework	3	4	15	1	-	(²)	4	8	-	5	-	-	6	5	(²)	11	2	(²)	4	-	-	-
Group piecework	-	-	(²)	2	-	(²)	-	-	-	-	-	-	1	2	(²)	3	-	5	(²)	(²)	-	-
Individual bonus	9	16	8	8	6	10	7	12	11	-	5	-	5	7	2	17	-	9	-	2	-	-
Group bonus	2	3	3	3	5	(²)	8	3	(²)	-	(²)	-	3	3	1	5	-	-	-	2	2	-

¹ For definition of method of wage payment, see appendix B.² Less than 0.5 percent.

NOTE: Because of rounding, sums of individual items may not equal totals.

Table 27. Scheduled weekly hours: Plantworkers

(Percent of production workers in machinery manufacturing establishments by scheduled weekly hours,¹ winter 1970-71)

Weekly hours	Northeast								South				North Central						West			
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Phila-delphia	Pitts-burgh	Worces-ter	Balti-more	Dallas	Houston	Tulsa	Chi-cago	Cleve-land	De-troit	Mil-waukee	Minne-apolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	Port-land	San Fran-cisco-Oakland
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 37½ hours.....	(²)	-	-	-	2	-	-	-	-	-	-	-	1	7	1	1	1	-	5	-	-	-
37½ hours.....	-	-	-	-	1	20	-	10	29	-	-	-	-	-	-	2	-	-	-	-	-	-
40 hours.....	83	93	78	86	83	67	95	67	66	76	79	95	84	77	86	82	88	92	83	85	100	100
Over 40 and under 44 hours.....	(²)	-	1	-	2	-	-	2	-	-	2	-	-	-	-	4	-	-	-	-	3	-
44 or 44½ hours.....	-	-	-	3	4	2	-	-	-	-	1	-	(²)	-	1	4	-	-	-	-	-	-
45 hours.....	4	6	6	6	5	7	-	15	2	12	14	6	4	6	4	5	6	6	7	6	-	-
Over 45 and under 50 hours.....	7	-	3	-	(²)	2	1	6	4	4	-	-	4	2	2	(²)	1	-	-	1	-	-
50 hours.....	1	-	11	2	-	2	-	1	-	4	-	-	4	2	2	4	5	2	-	1	-	-
Over 50 hours.....	3	2	1	4	3	1	4	-	-	4	4	-	2	7	4	(²)	-	-	5	6	-	-

¹ Data relate to the predominant work schedule for full-time day-shift workers in each establishment.

² Less than 0.5 percent.

NOTE: Because of rounding, sums of individual items may not equal 100.

Table 28. Scheduled weekly hours: Officeworkers

(Percent of officeworkers in machinery manufacturing establishments by scheduled weekly hours,¹ winter 1970-71)

Weekly hours	Northeast								South				North Central						West			
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Phila-delphia	Pitts-burgh	Worces-ter	Balti-more	Dallas	Houston	Tulsa	Chi-cago	Cleve-land	De-troit	Mil-waukee	Minne-apolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	Port-land	San Fran-cisco-Oakland
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 35 hours.....	(²)	-	-	-	1	-	-	4	-	-	-	-	(²)	(²)	-	(²)	-	-	-	-	-	-
35 hours.....	6	-	1	4	24	3	3	-	-	-	-	-	-	(²)	-	1	-	-	-	-	-	-
Over 35 and under 37½ hours.....	10	3	1	4	11	-	-	-	-	-	-	-	1	-	-	(²)	-	-	4	-	-	1
37½ hours.....	18	2	1	11	19	9	9	-	3	3	(²)	-	14	8	2	6	-	-	-	-	-	5
Over 37½ and under 40 hours.....	1	-	-	11	17	1	-	-	-	-	-	-	1	1	-	-	-	18	-	-	-	-
40 hours.....	64	95	88	70	30	86	88	96	97	97	99	96	83	91	96	90	98	82	96	100	100	94
Over 40 and under 45 hours.....	-	-	8	-	-	-	-	-	-	-	1	-	-	-	-	3	-	-	-	-	-	-
45 hours and over.....	1	-	1	-	-	(²)	-	-	-	-	-	4	(²)	1	3	-	-	-	-	-	-	-

¹ Data relate to the predominant work schedule for full-time day-shift workers in each establishment.

² Less than 0.5 percent.

NOTE: Because of rounding, sums of individual items may not equal 100.

Table 29. Shift differential provisions: Plantworkers

(Percent of production workers in machinery manufacturing establishments by shift differential provisions,¹ winter 1970-71)

Shift differential	Northeast							South				North Central					West					
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Baltimore	Dallas	Houston	Tulsa	Chicago	Cleveland	Detroit	Milwaukee	Minneapolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	Portland	San Francisco-Oakland
Second shift																						
Workers in establishments having second shift provisions	79.9	84.8	84.1	72.8	55.7	88.9	95.7	88.7	91.3	82.4	87.1	86.9	86.7	83.1	87.7	96.9	94.2	92.3	87.6	68.0	88.7	87.4
With shift differential	79.9	84.8	84.1	72.8	55.7	88.9	91.0	88.7	91.3	82.4	85.4	86.9	86.6	83.1	86.5	96.9	94.2	92.3	85.9	65.4	88.7	87.4
Uniform cents per hour	23.9	64.6	34.6	12.2	12.9	23.6	85.4	37.5	10.4	74.4	79.4	78.2	34.3	66.9	49.9	91.6	87.2	34.0	52.1	47.9	2.8	26.3
10 cents	-	-	-	-	4.0	-	4.1	-	-	-	17.9	-	-	6.4	1.9	-	1.3	5.5	-	-	-	-
Over 10 and under	6.7	16.4	2.3	1.5	7.0	5.9	37.9	24.0	5.5	34.9	12.9	26.3	2.3	9.6	6.2	12.7	15.4	12.4	24.6	10.4	-	1.9
15 cents	2.9	-	2.1	-	-	-	² 30.2	-	-	8.5	² 42.1	² 37.7	3.5	.9	2.2	20.1	15.3	1.1	-	16.5	-	2.4
Over 15 and under	.6	41.5	13.7	7.8	1.0	6.2	10.9	-	3.0	6.6	4.3	8.4	10.4	17.3	7.9	36.1	35.4	10.9	23.8	10.3	-	3.0
20 cents	-	3.3	.9	-	-	4.4	-	-	-	-	-	-	3.5	5.1	-	6.3	6.1	-	-	4.2	-	-
Over 20 and under	-	3.4	3.6	.6	-	3.0	-	8.3	-	18.8	2.2	5.8	3.8	19.7	15.9	1.2	13.9	-	3.6	3.1	-	14.1
25 cents	3.0	-	2.5	-	.9	-	-	5.2	-	-	-	-	.3	-	2.5	12.2	-	-	-	-	2.8	-
25 cents	6.9	-	.9	2.2	-	1.2	2.2	-	-	5.4	-	-	9.3	5.1	11.8	.4	-	2.6	-	1.9	-	3.7
Over 25 cents	3.9	-	8.7	-	-	2.8	-	-	1.9	-	-	-	1.3	2.7	1.5	2.5	-	1.4	-	1.5	-	1.1
Uniform percentage	48.5	14.9	48.2	60.3	42.8	65.3	5.6	48.1	81.0	4.0	3.1	8.8	50.3	11.6	36.6	5.1	6.9	58.3	30.6	9.7	12.6	4.3
4 or 5 percent	-	4.9	16.9	14.3	-	-	-	7.0	28.6	-	-	-	1.5	.6	27.2	2.7	-	15.7	-	6.7	-	-
Over 5 and under	-	8.6	25.9	1.4	2.4	-	-	4.0	5.7	-	3.1	-	11.5	5.2	7.2	2.1	4.2	-	-	-	-	1.0
10 percent	43.3	-	5.4	38.5	23.1	64.5	5.6	37.2	46.7	4.0	-	8.8	32.0	5.8	2.2	-	2.7	36.3	30.6	2.8	10.7	3.4
12 or 12½ percent	4.8	-	-	1.9	4.6	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	-	2.0	-
15 or 20 percent	.5	1.3	-	4.1	12.7	.8	-	-	-	-	-	-	5.3	-	-	.3	-	-	-	.2	-	-
Other formal pay differential	7.4	5.3	1.3	.4	-	-	-	3.1	-	4.1	2.9	-	2.0	4.6	-	.2	-	-	³ 3.2	7.9	⁴ 73.3	⁴ 56.7
With no shift differential	-	-	-	-	-	-	4.7	-	-	-	1.7	-	.1	-	1.2	-	-	1.8	2.6	-	-	-
Third or other late shift																						
Workers in establishments having third or other late shift provisions	64.8	66.3	70.6	66.7	36.5	65.9	84.5	65.4	83.8	37.8	78.4	45.3	71.2	65.5	69.9	87.4	75.4	83.8	78.2	40.8	72.1	76.5
With shift differential	64.8	66.3	70.6	66.7	36.5	65.9	84.5	65.4	83.8	37.8	76.7	45.3	71.1	65.5	69.9	87.4	75.4	83.8	78.2	40.8	72.1	76.5
Uniform cents per hour	19.9	40.6	25.6	11.0	5.1	17.0	75.1	37.5	5.9	37.8	66.5	36.5	29.7	46.4	34.7	72.4	69.0	17.5	29.2	19.7	-	4.7
10 cents	2.7	4.0	.8	1.5	1.3	.8	.6	-	1.0	-	-	-	.2	4.0	.4	-	1.5	1.5	3.1	.8	-	-
Over 10 and under	-	-	-	-	-	-	4.7	-	4.7	.9	-	-	1.9	6.4	.3	5.2	-	3.2	-	-	-	-
15 cents	5.9	5.6	12.2	-	1.9	.6	55.3	24.0	-	3.9	4.0	19.3	3.3	11.1	8.8	5.6	23.5	7.2	9.8	8.0	-	-
Over 15 and under	-	-	2.1	-	-	4.4	9.7	-	-	8.5	⁵ 60.3	6.6	1.4	5.0	.5	19.9	5.0	-	-	.6	-	-
20 cents	-	31.0	.9	7.0	-	7.9	-	2.5	3.0	16.7	1.2	10.7	10.5	2.0	6.2	21.3	32.4	1.6	14.6	4.3	-	-
Over 20 and under	3.0	-	2.5	.8	-	-	4.9	-	-	-	-	-	1.2	9.1	-	6.7	-	-	5.4	-	-	-
25 cents	3.3	-	1.4	1.7	1.0	1.2	-	5.8	-	3.9	-	-	-	9.9	3.2	13.2	5.9	-	2.6	-	-	.6
27 or 27½ cents	-	-	-	.9	-	-	-	-	-	-	-	-	-	-	-	2.5	-	1.4	-	-	-	-
30 cents	3.9	-	2.2	-	-	-	-	5.2	1.9	-	-	-	1.2	5.7	1.2	6.7	1.0	-	1.8	.5	-	-
Over 30 cents	1.1	-	3.5	-	-	2.2	-	-	-	-	-	-	-	1.4	1.2	1.2	5.6	-	-	-	-	4.1
Uniform percentage	37.5	9.8	43.6	54.0	31.5	47.4	5.6	27.9	77.9	-	3.1	8.8	40.1	9.2	34.4	4.4	6.4	52.0	30.6	2.8	2.0	1.0
5 percent	-	-	-	-	-	-	-	-	-	-	-	-	1.5	-	.7	-	-	2.1	-	-	-	-
Over 5 and under	-	1.5	5.5	-	-	-	-	-	3.2	-	-	-	9.4	3.7	.8	1.8	-	-	-	.7	-	-
10 percent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 29. Shift differential provisions: Plantworkers—Continued

(Percent of production workers in machinery manufacturing establishments by shift differential provisions,¹ winter 1970-71)

Shift differential	Northeast								South				North Central					West				
	Boston	Buffalo	Hartford- New Britain- Bristol	Newark and Jersey City	New York	Phila- delphia	Pitts- burgh	Worce- ster	Balti- more	Dallas	Houston	Tulsa	Chi- cago	Cleve- land	De- troit	Mil- waukee	Minne- apolis- St. Paul	St. Louis	Denver	Los Angeles- Long Beach and Anaheim- Santa Ana- Garden Grove	Port- land	San- Fran- cisco- Oakland
<u>Third or other late shift—Continued</u>																						
Workers in establishments having third or other late shift provisions—Continued																						
With shift differential—Continued																						
Uniform percentage—Continued																						
10 percent.....	22.5	7.0	38.1	49.5	18.2	43.2	5.6	27.9	74.7	-	-	8.8	18.6	5.5	32.8	2.2	6.4	49.9	-	-	-	-
Over 10 and under 15 percent.....	7.2	-	-	2.5	3.9	1.8	-	-	-	-	3.1	-	5.2	-	-	-	-	-	30.6	-	-	1.0
15 or 21 percent.....	7.8	1.3	-	1.9	9.4	2.4	-	-	-	-	-	5.2	-	-	-	.3	-	-	-	2.1	2.0	-
Other formal pay differential.....	7.4	15.9	1.3	1.7	-	1.5	3.7	-	-	-	7.0	-	-	9.9	-	10.5	-	14.3	18.4	18.3	70.1	70.8
With no shift differential.....	-	-	-	-	-	-	-	-	-	-	1.7	-	.1	-	.9	-	-	-	-	-	-	-

¹ Refers to policies of establishments either currently operating late shifts or having provisions covering late shifts.
² Most of these workers were in establishments providing 12 cents an hour.
³ Includes 8 hours' pay for 7½ hours' work.
⁴ Includes combination plans such as full day's pay for reduced hours, plus cents or percent differential.
⁵ 44 percent of the workers were in establishments providing 18 cents an hour and 16 percent were in establishments providing 16 cents an hour.
⁶ All workers were in establishments providing 12.5 percent.

NOTE: Because of rounding, sums of individual items may not equal totals.

Table 30. Shift differential practices: Plantworkers

(Percent of production workers in machinery manufacturing establishments employed on late shifts by amount of pay differential, winter 1970-71)

Shift differential	Northeast							South				North Central					West					
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Baltimore	Dallas	Houston	Tulsa	Chicago	Cleveland	Detroit	Milwaukee	Minneapolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	Portland	San Francisco-Oakland
Second shift																						
Workers employed on second shift	10.2	14.7	13.7	8.2	5.1	15.4	21.0	13.1	18.7	13.5	24.1	20.4	15.9	16.2	14.1	19.2	16.7	11.0	19.8	10.3	16.6	10.2
Receiving shift differential	10.2	14.7	13.7	8.2	5.1	15.4	20.4	13.1	18.7	13.5	24.0	20.4	15.8	16.2	13.8	19.2	16.7	11.0	19.3	9.8	16.6	10.2
Uniform cents per hour	2.9	11.4	4.6	1.6	1.2	3.1	19.1	3.5	.7	11.9	23.0	19.0	6.4	13.0	6.5	18.5	15.3	6.1	12.4	6.5	-	3.1
Under 10 cents	-	-	-	-	.5	-	.6	-	-	-	4.9	-	-	1.0	.3	-	.3	.9	-	-	-	-
10 cents	.5	2.4	.2	-	.2	.2	9.0	.9	-	3.8	3.3	4.5	-	1.0	.4	2.9	1.2	1.7	5.9	.5	-	-
Over 10 and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 cents	.2	-	.7	-	-	-	5.8	-	-	3.0	13.3	12.1	.3	.2	.2	3.8	2.4	.2	-	2.8	-	-
15 cents	.1	8.1	1.1	1.4	.2	1.1	3.4	-	.5	1.3	.7	1.2	2.1	.6	7.1	7.6	2.3	5.8	.8	-	-	-
Over 15 and under	-	-	.3	-	-	.8	-	-	-	-	-	-	.6	1.3	-	1.6	1.0	-	-	1.4	-	-
20 cents	-	.9	.5	.1	-	.2	-	1.5	-	3.4	.8	1.2	.8	5.5	1.3	.3	2.8	-	.8	.7	-	3.1
Over 20 and under	-	-	.4	-	.3	-	-	1.1	-	-	-	-	.1	-	.7	2.6	-	-	-	-	-	-
25 cents	.5	-	-	.1	-	.2	.4	-	-	.4	-	-	2.5	.9	2.4	(1)	-	.6	-	.2	-	-
25 cents	.8	-	1.4	-	-	.5	-	-	.2	-	-	(1)	.4	.6	.1	-	.4	-	-	.1	-	-
Over 25 cents	6.1	2.0	9.0	6.6	3.8	12.3	1.3	8.7	18.0	1.1	1.0	1.4	9.1	2.2	7.3	.7	1.3	5.0	6.9	2.2	2.1	.8
Uniform percentage	-	.8	2.5	2.2	-	-	-	1.4	8.6	-	-	-	-	.2	5.1	.3	-	2.9	-	1.8	-	-
4 or 5 percent	-	1.0	5.4	.3	-	-	-	.6	-	-	1.0	-	3.0	1.4	1.7	.4	.9	-	-	-	-	-
10 percent	4.5	-	1.1	4.1	2.2	12.2	1.3	6.7	9.5	1.1	-	1.4	5.5	.7	.5	-	5.0	6.9	.3	1.7	.8	-
12 or 12½ percent	1.6	-	-	-	.3	-	-	-	-	-	-	-	-	-	-	-	2.0	6.9	-	.4	-	-
15 or 20 percent	-	.1	-	-	1.3	.1	-	-	-	-	-	-	.6	-	-	.1	-	-	-	-	-	-
Other formal pay differential	1.3	1.2	.1	.1	-	-	-	.8	-	.6	-	-	.2	1.0	-	-	-	-	-	1.0	14.6	26.2
Receiving no shift differential	-	-	-	-	-	-	.6	-	-	-	.1	-	(1)	-	.4	-	-	-	.4	.5	-	-
Third or other late shift																						
Workers employed on third or other late shift	.7	1.8	3.1	2.2	.1	5.7	7.6	1.1	7.5	1.3	12.3	1.6	3.8	1.2	2.5	5.3	1.6	1.8	1.6	.8	2.5	.9
Receiving shift differential	.7	1.8	3.1	2.2	.1	5.7	7.6	1.1	7.5	1.3	12.3	1.6	3.8	1.2	2.5	5.3	1.6	1.8	1.6	.8	2.5	.9
Uniform cents per hour	.2	.9	.4	.2	.1	.4	7.2	.9	-	1.3	12.1	.3	2.4	1.0	.5	4.3	1.4	.3	.7	.3	-	-
10 cents	-	-	-	-	-	-	-	-	-	-	-	-	-	(1)	-	-	-	-	-	-	-	-
Over 10 and under	-	-	-	-	-	-	.1	-	-	.4	-	-	-	-	-	.3	-	.1	-	-	-	-
15 cents	.1	-	(1)	-	-	-	6.0	.1	-	.1	-	-	-	.1	.1	.6	.5	-	.3	.1	-	-
Over 15 and under	-	-	(1)	-	-	-	.8	-	-	.9	12.0	.1	-	.1	.1	.9	-	-	-	-	-	-
20 cents	-	.9	.1	.1	-	.2	-	-	-	-	.1	.2	.8	.1	1.1	1.0	-	.4	-	-	-	-
Over 20 and under	-	-	.1	-	-	-	.2	-	-	-	-	-	(1)	.8	.1	-	-	-	.3	-	-	-
25 cents	.1	-	-	-	(1)	.2	-	.5	-	-	-	-	1.5	.1	(1)	.7	-	.2	-	-	-	-
Over 25 cents	-	.3	-	-	(1)	(1)	-	.3	-	-	-	-	.1	.2	.6	-	-	-	-	-	-	-
Uniform percentage	.3	.3	2.7	1.9	(1)	5.3	.4	.2	7.5	-	(1)	1.3	1.4	(1)	1.9	.1	.1	.5	.9	-	-	-
Under 10 percent	-	-	.1	-	(1)	-	-	-	-	-	-	-	.6	(1)	.1	-	-	-	-	-	-	-
10 percent	.2	.3	2.6	1.8	(1)	5.3	.4	.2	7.5	-	(1)	1.3	.5	(1)	1.9	-	.1	.5	-	-	-	-
Over 10 percent	.1	-	-	.1	-	-	-	-	-	-	(1)	-	.2	-	-	-	-	.9	-	-	-	-
Other formal pay differential	.2	.6	-	.1	-	-	-	-	-	-	.1	-	(1)	.2	(1)	1.0	-	1.0	-	.5	2.5	2.9
Receiving no shift differential	-	-	-	-	-	-	-	-	-	-	.1	-	(1)	-	-	-	-	-	-	-	-	-

¹ Less than 0.05 percent.

² Includes combination plans such as full day's pay for reduced hours, plus cents or percent differential.

NOTE: Because of rounding, sums of individual items may not equal totals.

Table 31. Paid holidays: Plantworkers

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid holidays, winter 1970-71)

Number of paid holidays	Northeast								South				North Central						West			
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Phila-delphia	Pitts-burgh	Worces-ter	Balti-more	Dallas	Houston	Tulsa	Chi-cago	Cleve-land	De-troit	Mil-waukee	Minne-apolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	Port-land	San Fran-cisco-Oakland
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing paid holidays.....	100	100	100	100	99	100	100	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100
4 or 5 days.....	-	-	-	-	-	-	4	-	-	24	4	5	-	-	-	-	-	-	5	(¹)	-	-
5 days plus 2 half days.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(¹)	-	-	-	-	-	-	-
6 days.....	1	1	(¹)	7	1	2	6	3	6	9	15	8	9	12	6	1	8	-	5	30	-	7
6 days plus 1, 2, or 3 half days.....	-	-	1	1	-	2	-	-	-	7	-	-	2	6	3	1	-	3	-	2	1	-
7 days.....	-	5	7	6	6	5	1	1	4	4	4	19	2	1	3	2	4	2	25	9	17	1
7 days plus 1, 2, or 3 half days.....	1	3	2	5	3	3	1	-	3	6	1	-	6	6	1	1	2	8	7	6	8	4
8 days.....	7	6	9	3	7	10	45	23	36	32	11	64	14	5	6	4	23	17	6	15	73	7
8 days plus 1 half day.....	2	-	-	1	(¹)	(¹)	5	12	-	-	-	-	1	6	1	-	4	-	-	1	2	1
8 days plus 2 or 3 half days.....	-	4	5	4	(¹)	1	-	3	2	-	1	-	1	5	-	-	-	-	-	6	-	-
9 days.....	12	27	10	18	24	37	28	23	41	20	65	4	25	32	9	26	34	28	5	26	-	68
9 days plus 1 half day.....	17	3	1	1	2	4	-	25	-	-	-	-	2	1	-	7	-	-	-	-	-	-
9 days plus 2 half days.....	6	-	12	2	6	6	-	6	-	-	-	-	1	1	-	-	-	3	-	-	-	-
10 days.....	18	44	30	21	11	24	11	-	8	-	-	-	21	27	21	53	23	25	48	4	-	13
10 days plus 1, 2, or 3 half days.....	17	-	-	5	8	2	-	-	-	-	-	-	(¹)	-	-	-	-	-	-	1	-	-
11 days.....	12	7	23	21	18	5	-	5	-	-	-	-	7	1	27	6	1	15	-	1	-	-
11 days plus 1 or 2 half days.....	4	-	-	3	7	-	-	-	-	-	-	-	2	-	3	-	-	-	-	-	-	-
12 days or more.....	5	-	-	4	5	1	-	-	-	-	-	-	10	-	21	-	-	-	-	-	-	-
Workers in establishments providing no paid holidays.....	-	-	-	-	1	-	-	-	-	-	-	-	-	-	(¹)	-	-	-	-	-	-	-

¹ Less than 0.5 percent.

NOTE: Because of rounding, sums of individual items may not equal 100.

Table 32. Paid holidays: Officeworkers

(Percent of officeworkers in machinery manufacturing establishments with formal provisions for paid holidays, winter 1970-71)

Number of paid holidays	Northeast								South				North Central						West			
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Phila-delphia	Pitts-burgh	Worces-ter	Balti-more	Dallas	Houston	Tulsa	Chi-cago	Cleve-land	De-troit	Mil-waukee	Minne-apolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	Port-land	San Fran-cisco-Oakland
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing paid holidays.....	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4 or 5 days.....	-	-	-	-	-	-	2	-	-	18	2	5	-	-	-	-	-	-	4	(¹)	-	-
5 days plus 2 half days.....	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
6 days.....	1	1	-	3	1	1	2	1	4	2	8	5	7	4	3	-	5	-	5	21	-	2
6 days plus 1, 2, or 3 half days.....	-	2	-	(¹)	4	4	-	-	5	-	-	1	4	6	(¹)	-	2	-	2	1	-	
7 days.....	-	1	5	2	4	5	2	-	2	5	7	27	3	1	3	(¹)	1	2	10	6	35	
7 days plus 1, 2, or 3 half days.....	1	1	1	4	(¹)	1	(¹)	-	2	6	2	-	6	7	(¹)	2	4	7	5	4	7	
8 days.....	3	2	6	(¹)	7	7	24	33	37	49	14	58	11	6	10	1	16	15	4	18	53	
8 days plus 1 half day.....	1	-	-	1	-	3	6	7	7	-	-	-	1	6	-	5	-	-	-	(¹)	4	
8 days plus 2 or 3 half days.....	-	6	9	3	2	1	-	4	1	-	1	-	1	7	-	-	-	-	-	12	-	
9 days.....	8	18	14	25	32	33	33	16	48	15	67	6	28	31	12	35	47	29	7	31	-	
9 days plus 1 half day.....	23	-	1	(¹)	-	3	-	31	-	-	-	-	4	1	-	2	-	-	-	-	-	
9 days plus 2 half days.....	3	-	20	2	5	5	-	5	-	-	-	-	1	1	-	-	-	4	-	-	-	
10 days.....	20	65	32	36	15	31	30	-	-	-	-	-	26	33	26	52	22	29	65	3	11	
10 days plus 1 half day.....	10	-	-	3	5	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	
10 days plus 2 or 3 half days.....	12	-	-	4	7	-	-	-	-	-	-	-	(¹)	-	-	-	-	-	-	-	-	
11 days.....	12	2	13	10	11	6	-	4	-	-	-	-	3	1	18	8	(¹)	13	-	4	-	
11 days plus 1 or 2 half days.....	5	-	-	1	5	-	-	-	-	-	-	-	1	-	3	-	-	-	-	-	-	
12 days or more.....	1	-	-	5	6	-	-	-	-	-	-	-	8	-	18	-	-	-	-	-	-	

¹ Less than 0.5 percent.

NOTE: Because of rounding, sums of individual items may not equal 100.

Table 33. Paid vacations: Plantworkers

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid vacations, winter 1970-71)

Vacation policy	Northeast								South				North Central						West			
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Phila-delphia	Pitts-burgh	Worces-ter	Balti-more	Dallas	Houston	Tulsa	Chi-cago	Cleve-land	De-troit	Mil-waukee	Minne-apolis--St. Paul	St. Louis	Denver	Los Angeles--Long Beach and Anaheim--Santa Ana--Garden Grove	Port-land	San Fran-cisco-Oakland
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Method of payment																						
Workers in establishments providing paid vacations.....	100	100	100	100	100	100	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100
Length-of-time payment.....	100	71	93	92	97	85	72	95	100	92	90	96	83	94	74	77	95	97	98	99	100	51
Percentage payment.....	-	29	7	8	3	9	28	5	-	8	10	4	17	6	26	23	5	3	2	1	-	49
Other.....	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amount of vacation pay ¹																						
After 1 year of service:																						
Under 1 week.....	-	-	-	-	-	-	-	-	-	-	-	-	-	(²)	2	-	-	-	-	-	-	-
1 week.....	71	93	59	94	77	83	89	79	95	73	88	87	65	77	69	87	78	87	55	69	95	38
Over 1 and under 2 weeks.....	-	-	33	5	6	3	5	1	1	-	-	-	4	12	4	8	5	7	2	2	-	44
2 weeks.....	29	7	8	1	17	15	6	21	2	28	13	13	23	7	22	1	17	6	43	20	6	17
Over 2 weeks.....	-	-	-	-	-	-	-	-	2	-	-	-	8	4	3	4	-	-	-	8	-	1
After 2 years of service:																						
Under 1 week.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
1 week.....	41	71	34	40	24	28	68	60	46	29	16	22	41	38	35	19	24	58	23	28	77	-
Over 1 and under 2 weeks.....	7	12	50	23	6	25	11	2	9	-	(²)	4	5	35	11	25	8	17	3	6	11	
2 weeks.....	52	16	16	36	68	47	21	38	42	68	84	75	45	23	47	53	68	42	60	59	17	88
Over 2 and under 3 weeks.....	-	-	-	-	2	-	-	-	2	-	-	-	9	4	4	4	-	-	6	6	-	1
3 weeks or more.....	-	-	-	-	-	-	-	-	-	3	-	-	-	-	1	-	-	-	-	4	-	-
After 3 years of service:																						
1 week.....	6	10	11	5	5	11	10	6	11	8	-	-	-	6	3	4	1	4	-	12	-	-
Over 1 and under 2 weeks.....	3	2	36	26	1	25	7	2	6	-	(²)	-	8	39	27	10	2	3	15	2	6	-
2 weeks.....	91	88	53	69	89	63	81	92	81	89	99	100	73	50	53	73	95	93	83	75	94	99
Over 2 and under 3 weeks.....	-	-	-	-	3	1	-	-	2	-	-	-	12	5	12	12	3	-	2	6	-	1
3 weeks or more.....	-	-	-	-	1	-	1	-	-	3	-	-	8	-	5	1	-	-	-	4	-	-
After 5 years of service:																						
1 week and under 2 weeks.....	1	1	1	2	2	5	1	-	3	3	-	-	1	3	1	3	-	-	-	5	6	-
2 weeks.....	97	77	72	84	77	86	73	100	95	90	95	100	74	81	51	77	95	79	68	78	94	81
Over 2 and under 3 weeks.....	2	15	28	5	10	5	17	-	2	-	1	-	6	16	23	20	3	21	2	8	-	7
3 weeks.....	-	7	-	9	9	5	9	-	-	7	4	-	19	-	21	-	3	-	31	4	-	13
Over 3 weeks.....	-	-	-	2	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	4	-	-
After 10 years of service:																						
1 week.....	1	-	-	2	1	(²)	-	-	3	3	-	-	-	-	-	-	-	-	-	2	-	-
2 weeks.....	31	11	32	28	19	14	17	-	12	43	46	23	-	16	5	-	-	-	-	33	8	5
Over 2 and under 3 weeks.....	1	7	20	17	9	9	-	35	4	-	(²)	25	10	19	39	7	-	3	1	6	-	-
3 weeks.....	67	71	47	52	65	69	71	65	82	51	54	52	77	60	35	84	91	83	62	54	86	93
Over 3 and under 4 weeks.....	-	3	-	-	7	7	5	-	-	-	-	-	13	5	14	8	3	-	2	8	-	1
4 weeks or more.....	-	7	-	1	6	-	7	-	-	4	-	-	-	-	7	-	-	-	2	2	-	-
After 15 years of service:																						
1 week.....	1	-	-	2	1	(²)	-	-	(²)	3	-	-	-	-	-	-	-	-	-	2	-	-
2 weeks.....	9	6	6	14	11	5	5	-	9	27	8	5	2	7	2	-	4	-	10	28	6	5
Over 2 and under 3 weeks.....	-	-	-	1	-	-	-	3	2	-	-	-	-	4	15	2	-	-	-	1	-	-
3 weeks.....	79	32	59	63	73	52	74	90	79	63	92	95	64	45	54	46	83	72	35	52	92	61
Over 3 and under 4 weeks.....	11	53	34	13	1	16	10	2	-	-	-	-	6	23	6	7	4	14	17	11	-	1
4 weeks.....	-	9	(²)	7	13	26	4	6	9	7	-	-	28	21	19	-	9	15	38	5	3	32
Over 4 weeks.....	-	-	-	-	2	-	7	-	-	-	-	-	-	-	3	44	-	-	-	1	-	-
After 20 years of service:																						
1 week.....	1	-	-	2	1	(²)	-	-	(²)	3	-	-	-	-	-	-	-	-	-	1	-	-
2 weeks.....	9	6	6	9	11	4	5	-	9	27	8	5	2	7	2	-	4	-	10	29	6	5
Over 2 and under 3 weeks.....	10	-	-	1	-	-	-	3	2	-	-	-	-	-	15	2	-	-	-	1	-	-
3 weeks.....	22	15	47	45	57	25	42	30	7	35	22	54	20	18	33	9	17	15	26	27	72	12
Over 3 and under 4 weeks.....	-	3	2	-	-	4	5	2	-	-	-	-	1	3	5	-	-	-	-	8	-	1
4 weeks.....	69	64	44	42	28	56	20	66	81	35	70	31	52	66	41	71	73	85	62	33	22	67
Over 4 and under 5 weeks.....	-	5	-	-	1	10	17	-	-	-	-	-	3	6	1	12	-	-	2	1	-	14
5 weeks.....	-	7	-	1	-	1	10	-	-	-	-	-	23	-	1	7	6	-	-	-	-	-
Over 5 weeks.....	-	-	-	-	2	-	1	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-

See footnotes at end of table.

Table 33. Paid vacations: Plantworkers—Continued

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid vacations, winter 1970-71)

Vacation policy	Northeast								South				North Central					West					
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Phila-delphia	Pitts-burgh	Worces-ter	Balti-more	Dallas	Houston	Tulsa	Chi-cago	Cleve-land	De-troit	Mil-waukee	Minne-apolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	Port-land	San Fran-cisco-Oakland	
<u>Amount of vacation pay</u> ¹ — Continued																							
After 25 years of service:																							
1 week.....	-	-	-	2	1	(²)	-	-	(²)	3	-	-	-	-	-	-	-	-	-	1	-	-	
2 weeks.....	-	6	6	8	11	3	5	-	9	27	8	5	2	7	-	-	4	-	10	29	6	5	
Over 2 and under 3 weeks.....	10	-	-	-	-	-	-	-	2	-	-	-	-	-	15	2	-	-	-	(²)	-	-	
3 weeks.....	18	8	30	35	54	24	9	-	7	35	22	44	15	16	33	7	17	11	23	25	72	12	
Over 3 and under 4 weeks.....	-	3	-	-	-	-	-	6	-	-	-	9	1	-	5	-	-	-	-	8	-	1	
4 weeks.....	49	59	41	42	31	56	59	73	69	35	70	41	42	62	41	25	70	87	15	35	13	67	
Over 4 and under 5 weeks.....	7	5	21	2	1	3	17	-	-	-	-	-	5	8	-	-	-	17	1	9	9	14	
5 weeks.....	16	18	2	11	1	8	4	21	12	-	-	30	6	2	57	8	2	36	-	-	-	-	
Over 5 weeks.....	-	-	-	-	2	6	7	-	-	-	-	-	5	-	3	-	-	-	1	-	-	-	

¹ Vacation payments such as percent of annual earnings were converted to an equivalent time basis. Periods of service were chosen arbitrarily and do not necessarily reflect individual establishment provisions for progression. For example, the changes in proportions indicated at 10 years may include changes which occurred between 5 and 10 years.

² Less than 0.5 percent.

NOTE: Because of rounding, sums of individual items may not equal totals.

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Table 34. Paid vacations: Officeworkers

(Percent of officeworkers in machinery manufacturing establishments with formal provisions for paid vacations, winter 1970-71)

Vacation policy	Northeast								South				North Central					West				
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Phila-delphia	Pitts-burgh	Worces-ter	Balti-more	Dallas	Houston	Tulsa	Chi-cago	Cleve-land	De-troit	Mil-waukee	Minne-apolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	Port-land	San Fran-cisco-Oakland
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
<u>Method of payment</u>																						
Workers in establishments providing paid vacations.....	100	100	100	100	100	100	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100
Length-of-time payment.....	100	100	100	100	100	100	100	97	100	100	100	100	96	92	99	95	98	100	100	100	100	89
Percentage payment.....	-	-	-	-	-	-	-	3	-	-	-	-	4	8	1	5	2	-	-	-	-	11
<u>Amount of vacation pay</u> ¹																						
After 1 year of service:																						
1 week.....	7	22	12	16	24	15	10	10	11	13	54	24	24	19	25	44	16	32	16	31	62	9
Over 1 and under 2 weeks.....	-	-	-	-	3	1	-	-	2	-	-	-	-	6	5	(²)	1	-	-	3	-	-
2 weeks.....	93	78	69	72	73	84	90	90	88	87	45	76	70	74	68	56	83	68	82	55	38	92
Over 2 and under 3 weeks.....	-	-	19	12	-	-	-	-	-	-	-	-	7	2	3	-	-	-	2	9	-	-
3 weeks or more.....	-	-	-	-	(²)	-	1	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-

See footnotes at end of table.

Table 34. Paid vacations: Officeworkers—Continued

(Percent of officeworkers in machinery manufacturing establishments with formal provisions for paid vacations, winter 1970-71)

Vacation policy	Northeast							South				North Central					West					
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Baltimore	Dallas	Houston	Tulsa	Chicago	Cleveland	Detroit	Milwaukee	Minneapolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	Portland	San Francisco-Oakland
Amount of vacation pay¹—																						
Continued																						
After 2 years of service:																						
1 week.....	2	11	3	9	4	8	2	5	6	1	2	4	9	9	7	3	3	18	2	10	56	-
Over 1 and under 2 weeks.....	2	2	-	3	2	6	2	2	2	-	(²)	-	1	2	2	(²)	-	2	2	2	-	-
2 weeks.....	96	87	79	76	93	87	95	94	93	95	98	96	84	88	88	96	97	82	94	74	44	100
Over 2 and under 3 weeks.....	-	-	19	12	-	-	-	-	-	-	-	-	6	2	3	-	-	2	2	8	-	-
3 weeks or more.....	-	-	-	(²)	-	-	1	-	-	4	1	-	-	-	1	-	-	-	6	6	-	-
After 3 years of service:																						
1 week and under 2 weeks.....	2	2	3	5	1	5	1	3	6	1	-	-	3	3	1	3	-	2	2	4	-	-
2 weeks.....	98	98	72	81	96	90	98	97	95	95	99	100	83	92	78	90	99	98	96	83	100	100
Over 2 and under 3 weeks.....	-	-	26	14	5	-	-	-	-	-	-	-	10	5	13	7	2	-	2	8	-	-
3 weeks or more.....	-	-	-	3	-	-	1	-	-	4	1	-	-	-	8	-	-	-	6	6	-	-
After 5 years of service:																						
1 week and under 2 weeks.....	(²)	-	-	2	(²)	1	1	-	-	1	(²)	-	(²)	1	-	(²)	-	-	-	2	-	-
2 weeks.....	98	71	74	58	85	86	48	100	98	71	94	100	81	90	61	88	94	85	40	77	100	95
Over 2 and under 3 weeks.....	-	21	15	20	5	6	25	-	2	3	2	-	6	9	3	9	15	15	2	10	-	4
3 weeks.....	2	8	11	20	10	7	25	-	-	26	4	-	13	-	33	3	6	-	58	6	-	1
Over 3 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	6	-	-	-
After 10 years of service:																						
1 week and under 2 weeks.....	(²)	-	-	2	-	-	-	-	-	1	-	-	-	-	-	(²)	-	-	-	(²)	-	-
2 weeks.....	26	10	21	18	28	16	6	-	6	29	38	30	-	16	11	7	6	11	19	24	16	4
Over 2 and under 3 weeks.....	-	2	6	3	4	4	42	1	1	3	(²)	20	6	4	5	-	-	2	2	1	-	-
3 weeks.....	74	80	63	63	66	74	64	58	93	52	61	50	83	76	60	90	93	87	79	63	84	96
Over 3 and under 4 weeks.....	-	-	11	14	2	6	-	-	-	-	-	-	11	4	13	2	2	-	2	7	-	-
4 weeks.....	-	8	-	2	2	-	26	-	-	16	1	-	-	-	8	1	-	-	-	4	-	-
Over 4 and under 5 weeks.....	-	-	-	2	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	1	-	-
After 15 years of service:																						
1 week and under 2 weeks.....	(²)	-	-	2	-	-	-	-	-	1	-	-	-	-	-	(²)	-	-	-	(²)	-	-
2 weeks.....	8	2	7	5	19	5	6	-	4	15	4	17	2	8	6	(²)	1	-	8	19	7	4
Over 2 and under 3 weeks.....	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-
3 weeks.....	83	21	67	52	66	55	39	92	92	60	95	79	66	63	63	65	87	72	25	61	63	77
Over 3 and under 4 weeks.....	9	60	20	21	13	25	2	2	-	-	-	-	9	15	1	3	(²)	9	2	9	-	-
4 weeks.....	-	17	7	20	15	27	5	5	2	24	-	4	23	14	26	31	12	19	65	5	30	19
Over 4 weeks.....	-	-	-	-	-	25	-	-	-	-	1	-	-	-	3	(²)	-	-	-	4	-	-
After 20 years of service:																						
1 week and under 2 weeks.....	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	(²)	-	-	-	(²)	-	-
2 weeks.....	-	2	7	3	15	5	6	-	4	15	4	17	2	8	6	(²)	1	-	8	19	7	4
Over 2 and under 3 weeks.....	8	-	-	-	-	6	-	1	-	-	-	-	-	1	1	-	-	-	-	-	-	-
3 weeks.....	22	9	20	23	48	15	14	32	8	28	23	45	15	13	27	6	12	8	10	24	44	13
Over 3 and under 4 weeks.....	-	-	6	-	5	-	3	-	-	-	-	-	-	4	1	-	-	-	6	-	-	-
4 weeks.....	70	73	68	58	37	64	35	64	87	56	72	38	64	72	62	79	83	92	80	47	50	72
Over 4 and under 5 weeks.....	-	7	-	12	-	7	20	-	-	-	-	-	2	3	(²)	4	-	-	2	4	-	11
5 weeks.....	-	8	-	2	-	3	26	-	-	-	-	-	17	-	-	11	4	-	-	-	-	-
Over 5 weeks.....	-	-	-	-	-	1	-	-	-	-	-	-	-	-	3	-	-	-	-	(²)	-	-
After 25 years of service:																						
1 week and under 2 weeks.....	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	(²)	-	-	-	(²)	-	-
2 weeks.....	-	2	7	3	15	4	3	-	4	15	4	17	2	8	6	(²)	1	-	8	19	7	4
Over 2 and under 3 weeks.....	8	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	(²)	-	-
3 weeks.....	18	9	10	15	46	17	6	-	8	28	23	30	10	11	26	5	12	8	9	24	44	13
Over 3 and under 4 weeks.....	-	-	-	-	3	-	1	-	-	-	-	-	-	-	1	-	-	-	6	-	-	-
4 weeks.....	51	69	66	46	39	58	44	86	85	56	72	54	51	62	62	36	79	88	19	46	38	72
Over 4 and under 5 weeks.....	6	7	15	15	-	1	20	-	-	-	-	-	3	-	(²)	(²)	-	-	2	5	12	11
5 weeks.....	17	12	2	19	1	12	1	13	2	-	1	-	30	20	1	57	8	4	62	-	-	-
Over 5 and under 6 weeks.....	-	-	-	-	-	5	-	-	-	-	-	-	-	-	3	2	-	-	-	-	-	-
6 weeks.....	-	-	-	-	-	-	25	-	-	-	-	-	5	-	-	-	-	-	-	(²)	-	-
Over 6 weeks.....	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ Vacation payments such as percent of annual earnings were converted to an equivalent time basis. Periods of service were chosen arbitrarily and do not necessarily reflect individual establishment provisions for progression. For example, the changes in proportions indicated at 10 years may include changes which occurred between 5 and 10 years.

² Less than 0.5 percent.

NOTE: Because of rounding, sums of individual items may not equal totals.

Table 35. Health, insurance, and retirement plans: Plantworkers

(Percent of production workers in machinery manufacturing establishments with specified health, insurance, and retirement plans,¹ winter 1970-71)

Type of plan	Northeast								South				North Central						West			
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Phila-delphia	Pitts-burgh	Worces-ter	Balti-more	Dallas	Houston	Tulsa	Chi-cago	Cleve-land	De-troit	Mil-waukee	Minne-apolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	Port-land	San Fran-cisco-Oakland
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing:																						
Life insurance.....	97	97	99	93	89	97	99	100	96	98	96	100	99	97	98	100	95	95	94	91	93	98
Noncontributory plans.....	72	90	75	83	74	90	79	57	56	65	29	69	81	88	95	91	83	85	82	70	89	90
Accidental death and dismemberment insurance.....	79	76	90	70	60	87	63	94	81	82	69	80	81	82	92	76	91	95	47	79	93	95
Noncontributory plans.....	59	76	73	65	56	81	57	56	54	50	14	50	63	78	88	70	80	85	37	61	89	86
Sickness and accident insurance or sick leave or both ²	94	91	95	65	79	88	93	99	96	75	80	91	90	85	94	96	96	95	91	50	76	73
Sickness and accident insurance.....	91	84	93	55	39	83	93	84	93	71	72	83	87	85	94	96	59	89	51	12	76	6
Noncontributory plans..	70	69	74	51	38	78	77	44	83	35	13	63	73	78	91	87	48	81	41	9	76	6
Sick leave (full pay, no waiting period).....	37	2	(³)	16	60	25	4	43	8	11	4	36	5	7	14	2	36	12	46	32	6	5
Sick leave (partial pay or waiting period).....	1	5	3	4	3	4	-	8	-	1	33	-	3	(³)	-	-	3	5	7	9	-	63
Hospitalization insurance.....	99	100	99	94	97	99	99	100	97	95	100	100	99	96	100	100	100	100	100	96	100	100
Noncontributory plans.....	59	100	75	94	92	92	78	38	90	60	26	64	82	87	97	86	86	92	85	68	95	96
Surgical insurance.....	99	100	99	98	97	98	99	100	97	95	100	100	99	95	100	100	100	98	100	98	100	100
Noncontributory plans.....	59	94	75	97	88	92	78	38	90	60	26	64	82	86	97	86	89	90	85	13	95	96
Medical insurance.....	95	99	96	89	85	92	78	100	89	92	93	100	96	89	100	100	100	98	100	98	100	100
Noncontributory plans.....	54	93	71	89	75	86	61	38	81	60	26	64	78	80	97	86	89	90	85	70	100	96
Major medical insurance.....	95	47	71	53	46	77	60	100	45	87	91	84	81	57	37	80	86	62	90	91	100	100
Noncontributory plans.....	52	40	48	45	40	71	55	38	37	58	24	42	59	47	35	66	48	54	75	66	95	96
Dental insurance.....	3	-	2	3	19	-	5	-	-	-	-	-	1	1	3	2	6	2	-	8	66	73
Noncontributory plans.....	3	-	2	3	19	-	5	-	-	-	-	-	1	1	1	-	-	2	-	4	55	72
Retirement plans ⁴	77	88	91	77	75	88	94	93	96	68	83	87	87	82	87	95	85	84	73	50	90	87
Pensions.....	77	88	91	77	75	83	94	93	94	68	81	78	83	77	84	87	79	84	73	50	90	87
Noncontributory plans..	70	87	74	70	71	78	94	92	58	64	75	59	82	72	84	81	79	84	73	39	90	79
Severance pay.....	-	-	-	-	-	13	4	-	2	-	9	9	6	5	8	8	6	-	-	-	-	-
No plans.....	-	-	-	2	2	(³)	-	-	3	2	-	-	(³)	-	-	-	-	-	2	-	-	-

¹ Includes only those plans for which the employer pays at least part of the cost and excludes legally required plans such as workmen's compensation and social security. However, plans required by State temporary disability insurance laws are included if the employer contributes more than is required or the employees receive benefits over the legal requirements. "Noncontributory plans" include only those plans financed entirely by the employer.

² Unduplicated total of workers in plants having sick leave or sickness and accident insurance shown separately.

³ Less than 0.5 percent.

⁴ Unduplicated total of workers in plants having pension and severance pay plans shown separately.

NOTE: Because of rounding, sums of individual items may not equal totals.

Table 36. Health, insurance, and retirement plans: Officeworkers

(Percent of officeworkers in machinery manufacturing establishments with specified health, insurance, and retirement plans, ¹ winter 1970-71)

Type of plan	Northeast								South				North Central						West			
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Phila-delphia	Pitts-burgh	Worce-ster	Balti-more	Dallas	Houston	Tulsa	Chi-cago	Cleve-land	De-troit	Mil-waukee	Minne-apolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	Port-land	San Fran-cisco-Oakland
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing:																						
Life insurance.....	99	99	99	94	90	96	98	100	98	99	93	86	98	99	98	100	97	95	98	95	99	98
Noncontributory plans.....	71	83	77	86	58	75	73	52	50	50	26	37	81	85	92	94	63	75	82	67	66	94
Accidental death and dismemberment insurance..	81	81	85	67	54	78	64	96	54	79	71	86	80	78	88	77	92	85	40	85	96	96
Noncontributory plans.....	54	79	54	63	45	64	60	52	48	38	7	37	70	74	82	71	61	74	24	59	66	91
Sickness and accident insurance or sick leave or both ²	85	93	95	87	80	79	94	100	98	94	91	81	88	92	97	99	91	72	98	79	86	88
Sickness and accident insurance.....	78	79	74	56	38	74	94	94	54	75	64	65	71	77	92	69	51	54	32	22	78	3
Noncontributory plans..	63	77	37	49	36	61	73	51	47	24	6	41	61	58	86	58	20	46	17	11	49	3
no waiting period.....	61	71	73	61	63	44	51	94	55	50	63	38	62	63	53	48	73	44	88	63	33	78
Sick leave (partial pay or waiting period).....	4	-	-	5	-	1	-	5	-	1	21	-	1	(³)	11	22	2	2	4	10	-	8
Hospitalization insurance.....	100	100	100	96	94	99	98	100	98	94	97	86	99	100	99	100	100	96	100	98	99	100
Noncontributory plans.....	55	98	67	96	86	83	75	27	92	48	17	36	84	91	83	87	66	76	87	61	66	92
Surgical insurance.....	100	100	100	97	93	98	98	100	98	94	97	86	99	98	99	100	100	93	100	99	99	100
Noncontributory plans.....	55	92	67	97	84	82	75	27	92	48	17	36	84	91	83	87	66	76	87	62	66	92
Medical insurance.....	96	99	90	84	80	89	84	100	97	93	97	86	98	89	99	100	93	100	99	99	99	100
Noncontributory plans.....	52	89	61	84	70	72	62	27	91	48	17	36	81	81	83	87	66	73	87	62	66	92
Major medical insurance.....	99	83	90	79	66	81	69	100	91	91	97	86	86	55	79	95	94	78	98	97	99	100
Noncontributory plans.....	53	71	51	52	57	63	66	27	43	46	17	36	59	43	49	59	56	59	85	59	66	89
Dental insurance.....	3	-	1	1	(³)	-	5	-	2	-	1	-	3	4	4	1	-	-	-	8	50	28
Noncontributory plans.....	2	-	1	1	(³)	-	5	-	2	-	1	-	3	4	(³)	-	-	-	-	3	12	23
Retirement plans.....	86	96	93	81	76	90	67	98	98	65	88	88	81	89	92	97	93	90	82	63	55	91
Pensions.....	86	96	93	81	76	88	67	98	96	65	86	68	79	86	91	87	83	90	82	63	55	88
Noncontributory plans..	74	95	63	68	61	84	40	97	17	50	60	39	72	76	81	80	62	72	81	35	49	83
Severance pay.....	-	-	-	-	-	11	3	-	2	-	8	29	8	3	5	13	9	-	-	4	-	2
No plans.....	-	-	-	2	1	-	1	-	2	(³)	-	2	(³)	-	-	-	1	-	(³)	1	-	-

¹ Includes only those plans for which the employer pays at least part of the cost and excludes legally required plans such as workmen's compensation and social security. However, plans required by State temporary disability insurance laws are included if the employer contributes more than is required or the employees receive benefits over the legal requirements. ²Noncontributory plans" include only those financed entirely by the employer.

² Unduplicated total of workers in plants having sick leave or sickness and accident insurance shown separately.

³ Less than 0.5 percent.

⁴ Unduplicated total of workers in plants having pensions and severance pay plans shown separately.

NOTE: Because of rounding, sums of individual items may not equal totals.

Appendix A. Wage indexes, 1945-70

Indexes of average straight-time hourly earnings¹ of men in selected production occupations in nonelectrical machinery manufacturing, selected metropolitan areas, 1945-70²

(1966-68=100)³

Period	Selected occupations			Production workers in—									
	Laborers, material handling	Tool and diemakers (other than jobbing)	All areas combined ⁴	Baltimore	Boston	Buffalo	Chicago	Cleveland	Dallas	Denver	Detroit	Hartford	Houston
1945: January	30.3	34.9	33.5	32.1	32.9	35.0	33.0	35.4	37.6	-	36.7	32.0	36.1
1946: October	38.0	40.8	40.0	38.1	38.7	42.9	40.0	41.1	42.6	-	41.8	38.0	40.6
1947: November	41.0	44.0	43.9	42.0	43.1	42.8	44.4	47.0	45.8	-	45.5	41.8	45.1
1948: November	45.3	47.1	47.7	45.7	48.3	48.2	48.8	49.1	49.0	-	47.6	46.6	50.4
1949: November	46.6	48.0	48.5	45.4	50.5	47.3	48.7	49.5	50.8	-	48.6	45.8	50.7
1951: January	50.2	50.5	52.1	48.4	52.6	50.8	53.4	53.4	54.4	-	52.2	49.5	54.0
1952: January	53.6	53.0	54.9	49.6	54.5	54.1	55.5	56.1	56.2	-	55.5	52.0	56.5
1953: January	57.4	56.2	58.6	53.8	57.8	58.8	59.6	58.8	59.3	-	58.7	56.5	59.9
1954: January	60.1	59.6	61.5	56.1	60.7	-	62.3	61.7	62.8	(⁵)	61.8	59.1	62.6
1955: January	62.3	61.4	63.4	60.6	62.7	62.3	64.6	63.3	63.9	61.0	63.6	60.8	64.9
1956: January	64.6	64.3	66.5	64.1	64.6	66.0	67.1	66.7	65.7	64.0	67.0	63.6	68.4
1958: January	72.8	70.7	73.2	70.9	70.8	73.5	73.2	73.0	71.9	74.7	74.7	70.7	76.4
1959: January	76.2	73.6	75.6	75.2	74.1	75.5	75.9	74.6	74.4	76.4	76.3	73.0	77.0
1960: January	78.7	76.4	78.7	77.3	77.9	78.2	79.2	79.7	76.7	79.2	79.5	76.4	82.7
1961: March-May	81.9	79.1	81.1	80.6	81.3	81.3	80.4	81.4	79.0	81.8	81.7	80.0	82.5
1962: March-June	83.8	81.3	83.4	82.2	83.7	82.8	82.8	84.5	81.1	82.7	83.4	82.0	84.2
1963: March-May	86.3	83.2	85.7	86.2	86.1	85.7	85.5	86.8	83.2	84.8	85.3	84.6	85.9
1964: March-May	89.1	86.0	88.0	88.8	87.3	88.4	88.6	89.0	86.6	87.0	87.1	87.9	87.0
1965: April-June	90.9	88.3	90.1	91.1	89.1	91.2	90.5	91.3	89.2	89.5	89.4	89.9	88.9
1966: June-July	93.8	92.2	93.6	94.3	93.3	93.4	93.0	94.6	93.1	92.4	92.4	93.1	94.2
1968: September-November	106.4	107.8	106.3	106.0	106.7	106.3	107.0	105.3	107.0	108.4	107.6	106.8	105.6
1970: December	123.9	121.1	120.1	116.4	123.0	120.7	125.1	117.0	124.3	128.0	122.5	119.3	118.7

Period	Los Angeles-Long Beach	Milwaukee	Minneapolis-St. Paul	New York City	Newark and Jersey City	Philadelphia	Pittsburgh	Portland (Oreg.)	St. Louis	San Francisco-Oakland	Worcester
	1945: January	36.2	31.0	32.5	35.5	35.3	34.3	32.2	-	28.6	32.9
1946: October	41.9	39.6	38.6	42.4	41.6	41.6	39.8	-	33.7	37.5	-
1947: November	45.0	43.2	42.1	46.7	44.3	44.4	42.7	-	39.9	40.8	-
1948: November	47.8	46.9	46.0	50.1	49.3	48.9	48.3	-	42.9	43.9	-
1949: November	48.4	46.8	48.0	53.7	50.5	50.9	48.0	-	43.7	44.1	-
1951: January	52.0	50.6	50.4	57.3	52.9	53.8	54.3	-	46.0	45.6	-
1952: January	54.4	55.0	53.5	58.3	56.6	56.6	55.0	-	49.0	49.9	-
1953: January	58.7	59.0	57.6	61.8	60.1	62.0	58.8	-	52.1	51.6	-
1954: January	60.8	61.3	60.5	64.8	61.8	65.2	63.2	(⁵)	57.3	55.1	(⁵)
1955: January	63.2	63.1	62.4	67.3	63.7	67.3	64.5	59.7	59.6	56.7	62.5
1956: January	66.2	66.2	65.0	69.4	66.8	69.9	70.0	61.7	62.9	57.3	66.6
1958: January	73.4	73.7	70.8	75.4	72.6	74.9	78.2	68.6	69.0	67.9	72.4
1959: January	75.2	76.1	72.7	76.5	75.7	78.6	82.5	70.9	71.3	73.8	74.9
1960: January	78.2	79.0	75.5	78.7	76.8	81.8	84.7	77.3	74.0	75.6	76.3
1961: March-May	80.6	81.8	79.9	81.9	80.0	84.4	87.1	78.9	77.2	77.9	80.3
1962: March-June	83.1	84.3	81.5	84.9	82.4	86.5	88.6	81.6	81.2	79.8	82.4
1963: March-May	85.7	86.4	83.5	87.4	84.6	87.5	89.2	84.0	84.0	82.4	85.4
1964: March-May	86.6	88.5	86.9	90.1	88.5	89.6	90.2	86.5	85.7	84.7	87.2
1965: April-June	89.9	89.7	89.0	91.5	90.0	91.9	91.7	90.0	88.4	89.3	90.0
1966: June-July	94.4	94.2	93.7	95.9	93.1	94.1	96.1	92.3	91.6	93.2	94.5
1968: September-November	105.6	105.9	107.3	104.1	107.0	105.6	103.7	107.4	108.4	106.2	105.6
1970: December	116.0	122.0	123.2	117.5	120.9	123.2	113.1	120.0	121.0	122.2	120.3

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

² Data for the periods shown as January 1951-60 and November 1970 cover various months, generally winter, of the year.

³ Machinery survey was not conducted in 1967; base period limited to 2 years.

⁴ The all-area average for the years 1945 through 1953 was made up of the areas shown and Providence, Syracuse, Atlanta, Chattanooga, Tulsa, Cincinnati, Indianapolis, and Seattle-Tacoma.

⁵ Data for the 1954 and earlier years were not sufficiently comparable with information for subsequent years to show here, but these data were included in the total for all areas studied.

NOTE: Dashes indicate no data or data that do not meet publication criteria.

Appendix B. Scope and Method of Survey

Scope of survey

The survey included establishments engaged primarily in manufacturing machinery, except electrical (major group 35 as defined in the 1967 edition of the Standard Industrial Classification Manual, prepared by the U.S. Office of Management and Budget). This major group includes establishments engaged in manufacturing machinery and equipment, other than electrical equipment (major group 36) and transportation equipment (major group 37). Machines powered by built-in or detachable motors ordinarily are included in major group 35, with the exception of electrical household appliances (major group 36). Portable tools, both electric and pneumatic powered, are included in major group 35, but handtools are classified in major group 34. Separate auxiliary units such as central offices of the firms studied were excluded.

The study covered establishments with 20 workers or more at the time of reference of the data used in compiling the universe lists. Also included were establishments which employed 8 to 19 workers and primarily manufactured special dies and tools, die sets, jigs and fixtures, or machine-tool accessories and measuring devices (industries 3544 and 3545).

The number of establishments and workers actually studied by the Bureau and the number estimated to be in the industries during the payroll period studied, are shown in table B-1.

Method of study

Data were obtained by personal visits of the Bureau's field staff. The survey was conducted on a sample basis. To obtain appropriate accuracy at minimum cost, a greater proportion of large rather than small establishments was studied. In combining the data, however, all establishments were given their appropriate weight. All estimates are presented, therefore, as relating to all establishments in the industries in the selected areas, excluding only those below the minimum size at the time of reference of the universe data.

Establishment definition

An establishment, for purposes of this study, is defined as a single physical location where industrial operations are performed. An establishment is not necessarily identical with the company, which may consist of one or more establishments.

Employment

Estimates of the number of workers within scope of the study are intended as a general guide to the size and composition of the labor force included in the survey. The advance planning necessary to make a wage survey requires the use of the lists of establishments assembled considerably in advance of the payroll period studied.

Production and officeworkers

The term "production workers" or "plant-workers," as used in this bulletin, includes working foremen and all nonsupervisory workers engaged in nonoffice functions. Administrative, executive, professional, and technical personnel and force-account construction employees, who were utilized as a separate work force on the firm's own properties, were excluded.

The term "officeworkers," includes all nonsupervisory officeworkers and excludes administrative, executive, professional, and technical employees.

Occupations selected for study

Occupational classification was based on a uniform set of job descriptions designed to take account of interestablishment and inter-area variations in duties within the same job. (See appendix C for these descriptions.) The occupations were chosen for their numerical importance, their usefulness in collective bargaining, or their representativeness of the entire job scale in the industry. Working supervisors, apprentices, learners, beginners, trainees, handicapped, part-time, temporary, and probationary workers were not reported in the data for selected occupations.

Wage data

Information on wages relates to straight-time hourly earnings, excluding premium pay for overtime and for work on weekends, holidays, and late shifts. Incentive payments, such as those resulting from piecework or production bonus systems and cost-of-living bonuses, were included as part of the worker's regular pay; but nonproduction bonus payments, such as Christmas or yearend bonuses, were excluded.

Average (mean) hourly rates (or earnings) for each occupation were calculated by weighting each rate by the number of workers receiving the rate, totaling, and dividing by the

Table B-1. Estimated number of establishments and workers within scope of survey and number studied, machinery manufacturing industries, 22 areas, winter 1970-71

Area ¹	Payroll period	Number of establishments ²		Workers in establishments			
		Within scope of study	Actually studied	Within scope of study			Actually studied
				Total ³	Production workers	Office-workers	
Total, 22 areas	-	6,305	1,064	661,342	437,531	93,515	392,855
Northeast:							
Boston	November 1970	198	48	21,373	12,818	3,006	13,372
Buffalo	November 1970	108	25	12,675	8,166	2,209	7,690
Hartford-New Britain-Bristol	November 1970	191	48	24,504	18,579	2,543	19,038
Newark and Jersey City	November 1970	318	56	28,040	19,720	3,809	15,561
New York	November 1970	493	81	28,936	19,390	3,443	13,297
Philadelphia	April 1971	381	60	45,844	30,513	6,178	28,293
Pittsburgh	November 1970	129	30	16,809	11,545	2,033	10,584
Worcester	November 1970	50	20	7,617	4,964	1,213	5,625
South:							
Baltimore	November 1970	68	21	10,640	7,350	1,645	8,729
Dallas	November 1970	114	30	12,935	8,552	1,895	7,549
Houston	November 1970	143	32	27,406	15,796	2,562	14,046
Tulsa	November 1970	53	16	7,394	5,207	1,015	4,983
North Central:							
Chicago	January 1971	910	121	102,220	70,989	15,229	56,005
Cleveland	November 1970	417	76	40,806	27,052	7,013	24,094
Detroit	January 1971	1,004	102	71,812	49,422	9,595	39,575
Milwaukee	January 1971	233	49	53,877	36,221	9,208	38,748
Minneapolis-St. Paul	November 1970	241	44	44,203	23,995	6,827	31,797
St. Louis	November 1970	157	35	19,691	13,959	2,431	12,320
West:							
Denver	November 1970	47	22	9,424	5,640	1,171	8,023
Los Angeles-Long Beach and Anaheim							
Santa Ana-Garden Grove	November 1970	834	100	57,272	35,922	7,778	21,125
Portland	November 1970	58	18	5,579	3,886	812	3,873
San Francisco-Oakland	November 1970	158	30	12,285	7,845	1,900	8,093

¹ For definition of areas, see footnote 1 in tables 4-25.

² Includes only establishments manufacturing dies and tools, die sets, jigs and fixtures, or machine-tool accessories and measuring devices which employed 8 workers or more, and other machinery establishments with 20 workers or more at the time of reference of the universe data.

³ Includes executive, professional, and other workers excluded from the separate production and officeworker categories.

number of individuals. The hourly earnings of salaried workers were obtained by dividing their straight-time salary by normal rather than actual hours.

Wage trends

The machinery index series has been developed from data obtained in the Bureau's program of occupational wage surveys in the 21 selected areas studied separately, and is based on straight-time hourly earnings of men production workers in the following occupations: Assemblers (classes A, B, and C); electricians, maintenance; inspectors (classes A, B, and C); janitors, porters, and cleaners; laborers, material handling; machine-tool operators, production (classes A, B, and C); machinists, production; tool and diemakers (other than jobbing); and welders, hand, class A. Since Tulsa was added to the survey this year, comparisons from previous years cannot be presented for this area.

Area indexes reflect changes in average hourly earnings but not changes in the proportion of workers in the separate occupations. For each area, an aggregate of earnings was obtained by weighting the average straight-time hourly earnings for the respective occupations by a set of weights, based on average employments in the occupations in that area for 1966 and 1968. The percent of change was determined by comparing this aggregate with the aggregate for the previous year; the current index was computed by applying this percent of change to the previous index (in this case, 1968) for the area.

The index for all areas combined is constructed so as to minimize the effect of employment changes among the areas studied. The composite index was obtained by following techniques similar to those used to determine area indexes. An aggregate of earnings was obtained by weighting the average straight-time hourly earnings for the selected occupations in the areas by a set of weights, based on average employments in the machinery industries in these areas for the years 1966 and 1968. The percent of change was determined by comparing this aggregate with the aggregate for the previous year, and the current index was computed by applying this percent of change to the previous index (1968) for all areas combined.

From time to time, the index procedure is revised to bring the weighting pattern up to date by changing the set of occupational weights and the area weights. The new indexes are linked to the existing ones to form a continuous series.

Method of wage payment

Tabulations by method of wage payment relate to the number of workers paid under the various time and incentive wage systems.

Formal rate structures for time-rated workers provide single rates or a range of rates for individual job categories. In the absence of a formal rate structure, pay rates are determined primarily by the qualifications of the individual worker. A single rate structure is one in which the same rate is paid to all experienced workers in the same job classification. Learners, apprentices, or probationary workers may be paid according to rate schedules which start below the single rate and permit the workers to achieve the full job rate over a period of time. Individual experienced workers occasionally may be paid above or below the single rate for special reasons, but such payments are exceptions. Range of rate plans are those in which the minimum and/or maximum rates paid experienced workers for the same job are specified. Specific rates of individual workers within the range may be determined by merit, length of service, or a combination of various concepts of merit and length of service. Incentive workers are classified under piecework or bonus plans. Piecework is work for which a predetermined rate is paid for each unit of output. Production bonuses are based on production over a quota or for completion of a task in less than standard time.

Scheduled weekly hours

Data on weekly hours refer to the predominant work schedule for full-time production workers (or officeworkers) employed on the day shift, regardless of sex.

Shift provisions and practices

Shift provisions relate to the policies of establishments either currently operating late shifts or having formal provisions covering late shift work. Practices relate to workers employed on late shifts at the time of the survey.

Supplementary wage provisions

Supplementary benefits were treated statistically on the basis that if formal provisions were applicable to half or more of the production workers (or officeworkers) in an establishment, the benefits were considered applicable to all such workers. Similarly, if fewer than half of the workers were covered, the benefit was considered nonexistent in the establishment. Because of length-of-service and other eligibility requirements, the proportion of workers receiving the benefits may be smaller than estimated.

Paid holidays. Paid holiday provisions relate to full-day and half-day holidays provided annually.

Paid vacations. The summaries of vacation plans are limited to formal arrangements, excluding informal plans, whereby time off with pay is granted at the discretion of the employer or supervisor. Payments not on a time basis were converted; for example, a payment of 2 percent of annual earnings was considered the equivalent of 1 week's pay. The periods of service for which data are presented represent the most common practices, but they do not necessarily reflect individual establishment provisions for progression. For example, the changes in proportions indicated at 10 years of service may include changes which occurred between 5 and 10 years.

Health, insurance, and retirement plans. Data are presented for health, insurance, pension, and retirement plans for which all or part of the cost is borne by the employer, excluding programs required by law, such as workmen's compensation and social security. Among the plans included are those underwritten by a commercial insurance company, and those paid directly by the employer from his current operating funds or from a fund set aside for this purpose.

Death benefits are included as a form of life insurance. Sickness and accident insurance is limited to that type of insurance under which predetermined cash payments are made directly to the insured on a weekly or monthly basis during illness or accident disability. Information is presented for all such plans to which the employer contributes at least a part of the cost. However, in New York and New Jersey, where temporary disability insurance laws require employer contributions,¹ plans are included only if the employer (1) contributes more than is legally required or (2) provides the employees with benefits which exceed requirements of the law.

Tabulations of paid sick-leave plans are limited to formal plans which provide full pay or a proportion of the worker's pay during absence from work because of illness; informal arrangements have been omitted. Separate tabulations are provided according to (1) plans which provide full pay and no waiting period, and (2) plans providing either partial pay or a waiting period.

Medical insurance refers to plans providing for complete or partial payment of doctors' fees. These plans may be underwritten by a commercial insurance company or a non-profit organization, or they may be a form of self-insurance.

Major medical insurance, sometimes referred to as extended medical insurance, includes plans designed to cover employees for sickness or injury involving an expense which exceeds the normal coverage of hospitalization, medical, and surgical plans.

Dental insurance, for purposes of this survey, usually covers fillings, extractions, and X-rays. Excluded are plans which cover only oral surgery or accident damage.

Tabulations of retirement pensions are limited to plans which provide regular payments for the remainder of the retiree's life. Data are presented separately for retirement severance payments (one payment or several over a specified period of time) made to employees on retirement. Establishments providing both retirement severance payments and retirement pensions to employees were considered as having both retirement pension and retirement severance plans. Establishments having optional plans providing employees a choice of either retirement severance payments or pensions were considered as having only retirement pension benefits.

¹ The temporary disability insurance laws in California and Rhode Island do not require employer contributions.

Appendix C. Occupational Descriptions

The primary purpose of preparing job descriptions for the Bureau's wage surveys is to assist its field staff in classifying into appropriate occupations workers who are employed under a variety of payroll titles and different work arrangements from establishment to establishment and from area to area. This permits the grouping of occupational wage rates representing comparable job content. Because of this emphasis on interestablishment and interarea comparability of occupational content, the Bureau's job descriptions may differ significantly from those in use in individual establishments or those prepared for other purposes. In applying these job descriptions, the Bureau's field staff is instructed to exclude working supervisors, apprentices, learners, beginners, trainees, and part-time, temporary, and probationary workers.

Assembler

(Bench assembler; floor assembler; jig assembler; line assembler; subassembler)

Assembles and/or fits together parts to form complete units or subassemblies at a bench, conveyor line, or on the floor, depending upon the size of the units and the organization of the production process. Work may include processing operations requiring the use of handtools in scraping, chipping, and filing of parts to obtain a desired fit as well as power tools and special equipment when punching, riveting, soldering, or welding of parts is necessary. Workers who perform any of these processing operations exclusively as part of specialized assembling operations are excluded.

Class A. Assembles parts into complete units or subassemblies that require fitting of parts and decisions regarding proper performance of any component part or the assembled unit. Work involves any combination of the following: Assembling from drawings, blueprints, or other written specifications; assembling units composed of a variety of parts and/or subassemblies; assembling large units requiring careful fitting and adjusting of parts to obtain specified clearances; and using a variety of hand and powered tools, and precision measuring instruments.

Class B. Assembles parts into units or subassemblies in accordance with standard and prescribed procedures. Work involves any combination of the following: Assembling a limited range of standard and familiar products composed of a number of small- or medium-size parts requiring some fitting or adjusting; assembling large units that require

little or no fitting of component parts; working under conditions where accurate performance and completion of work within set time limits are essential for subsequent assembling operations; and using a limited variety of hand or powered tools.

Class C. Performs short-cycle repetitive assembling operations. Work does not involve any fitting or making decisions regarding proper performance of the component parts or assembling procedures.

Automatic-lathe operator

(Automatic-between-centers-lathe operator; automatic-chucking-machine operator; automatic-turret-lathe operator)

Operates one or more lathes equipped with automatic feed mechanisms for actuating the cutting tools over the complete work cycle. Automatic lathes may differ as to type of construction (horizontal or vertical); number of spindles (single or multiple); method of feed (hand-feed, automatic-chucking, or hopper-feed); method of holding the work (in chucks or between centers); and method of presenting the tools to the stock in sequence (turrets, slides, revolving work stations). (For description of class of work see machine-tool operator, production.)

Carpenter, maintenance

Performs the carpentry duties necessary to construct and maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors, floors, stairs, casings, and trim made of wood in an establishment. Work involves most of the following: Planning and laying out of work

from blueprints, drawings, models, or verbal instructions; using a variety of carpenter's handtools, portable power tools, and standard measuring instruments; making standard shop computations relating to dimensions of work; and selecting materials necessary for the work. In general, the work of the maintenance carpenter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

Drill-press operator, radial

Operates one or more types of radial-drilling machines designed primarily for the purpose of drilling, reaming, countersinking, counterboring, spot-facing, or tapping holes in large heavy metal parts. Several types of radial drills are in use, the most common type being designed so that the tool head and saddle are movable along a projecting arm which can be rotated about a vertical column and adjusted vertically on that column. (For description of class of work see machine-tool operator, production.)

Drill-press operator, single- or multiple-spindle

Operates one or more types of single- or multiple-spindle drill-presses, to perform such operations as drilling, reaming, countersinking, counterboring, spot-facing, and tapping. Drill-press operators, radial, and operators of portable drilling equipment are excluded. (For description of class of work see machine-tool operator, production.)

Electrician, maintenance

Performs a variety of electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy in an establishment. Work involves most of the following: Installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layout, or other specifications; locating and diagnosing trouble in the electrical system or equipment; working standard computations relating to load requirements of wiring or electrical equipment; and using a variety of electrician's handtools and measuring and testing instruments. In general, the work of the maintenance electrician requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

Engine-lathe operator

Operates an engine lathe for shaping external and internal cylindrical surfaces of metal objects. The engine lathe, basically characterized by a headstock, tailstock, and powered tool carriage, is a general-purpose machine tool used primarily for turning. It is also commonly used in performing such operations as facing, boring, drilling and threading, and equipped with appropriate attachments, may be used for a very wide variety of special machining operations. The stock may be held in position by the lathe "centers" or by various types of chucks and fixtures. Bench-lathe operators, automatic-lathe operators, screw-machine operators, automatic, and turret-lathe operators, hand (including hand screw machine) are excluded. (For description of class of work see machine-tool operator, production.)

Grinding-machine operator

(Centerless-grinder operator; cylindrical-grinder operator; external-grinder operator; internal-grinder operator; surface-grinder operator; Universal-grinder operator)

Operates one of several types of precision grinding machines to grind internal and external surfaces of metal parts to a smooth and even finish and to required dimensions. Precision grinding is used primarily as a finishing operation on previously machined parts, and consists of applying abrasive wheels rotating at high speed to the surfaces to be ground. In addition to the types of grinding machines indicated above, this classification includes operators of other production grinding machines, such as single-purpose grinders (drill-grinders, broach grinders, saw grinders, gearcutter grinders, thread grinders, etc.) and automatic and semiautomatic general purpose grinding machines. Operators of portable grinders are excluded. (For description of class of work see machine-tool operator, production.)

Inspector

Inspects parts, products, and/or processes of the establishment. Performs such operations as examining parts of products for flaws and defects, checking their dimensions and appearance to determine whether they meet the required standards and specifications. Does not include inspectors in toolrooms or inspectors of purchased parts.

Class A. Responsible for decisions regarding the quality of the product and/or operations. Work involves any combination of the following: Thorough knowledge of the processing operations in the branch of work to which he is assigned, including the use of a

variety of precision measuring instruments; interpreting drawings and specifications in inspection work on units composed of a large number of component parts; examining a variety of products or processing operations; determining causes of flaws in products and/or processes and suggesting necessary changes to correct work methods; and devising inspection procedures for new products.

Class B. Work involves any combination of the following: Knowledge of processing operations in the branch of work to which he is assigned, limited to familiar products and processes or where performance is dependent on past experience; performing inspection operations on products and/or processes having rigid specifications, but where the inspection procedures involve a sequence of inspection operations, including decisions regarding proper fit or performance of some parts; and using precision measuring instruments.

Class C. Work involves any combination of the following: Short-cycle repetitive inspection operations; using a standardized, special-purpose measuring instrument repetitively; and visual examination of parts or products, rejecting units having obvious deformities or flaws.

Janitor, porter, or cleaner

(Sweeper; charwoman; janitress)

Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office or other establishment. Duties involve a combination of the following: Sweeping, mopping, or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and minor maintenance services; and cleaning lavatories, showers, and restrooms. Workers who specialize in window washing are excluded.

Laborer, material handling

(Loader and unloader; handler and stacker; shelver; trucker; stockman or stock helper; warehouseman or warehouse helper)

A worker employed in a warehouse, manufacturing plant, store, or other establishment whose duties involve one or more of the following: Loading and unloading various materials and merchandise on or from freight cars, trucks, or other transporting devices; unpacking, shelving, or placing materials or merchandise in proper storage location; and transporting materials or merchandise by handtruck, car, or wheelbarrow. Longshoremen, who load and unload ships are excluded.

Machine-tool operator (miscellaneous)

Includes certain specialist operators, as well as all operators who are required alternately to operate more than one type of machine tool (for definition of machine tool see machine-tool operator, production). For wage study purposes, specialist operators are limited to those on boring machines, gear cutter, gear finisher, planer, shaper, or metal-cutting type machine tools not specially listed in the general definition of machine-tool operator, production. (For description of class of work see machine-tool operator, production.)

Machine-tool operator, production

Operates or tends one or more nonportable, power-driven machine tools (including numerically controlled machine tools) in order to shape metal by progressively removing portions of the stock in the form of chips or shavings, or by abrasion, such as:

- Automatic lathes
- Boring machines
- Drill presses, radial
- Drill presses, single- or multiple-spindle
- Engine lathes
- Gear-cutting machines
- Gear-finishing machines
- Grinding machines
- Machine tools, miscellaneous²
- Milling machine⁵
- Planers
- Screw machines, automatic
- Screw machines, hand
- Shapers
- Turret lathes, automatic
- Turret lathes, hand

Class A. Sets up machines, by determining proper feeds, speeds, tooling and operation sequence or by selecting those prescribed in drawings, blueprints, or layouts; and makes necessary adjustments during operations where changes in work and setup are relatively frequent, and where care is essential to achieve requisite dimensions of very close tolerances.

Class B. Sets up machines on standard or roughing operations where feeds, speeds, tooling and operation sequence are prescribed or maintains operation setup made by others; and makes all necessary adjustments during operation where care is essential to achieve very close tolerances or where changes in product are relatively frequent.

² Includes operators of machine tools not specifically listed above but within the general definition of operators of machine tools of the metal-cutting type, as well as operators required alternately to operate more than one type of machine tool.

Class C. Operates machine on routine and repetitive operations; makes only minor adjustments during operations; and when trouble occurs stops machine and calls foreman, leadman, or set up man to correct the operation.

Machine-tool operator, toolroom

Specializes in the operation of one or more types of machine tools such as jig borers, cylindrical or surface grinders, engine lathes, or milling machines in the construction of machine-shop tools, gages, jigs and fixtures, or dies. Work involves most of the following: Planning and performing difficult machining operations; processing items requiring complicated setups or a high degree of accuracy; using a variety of precision measuring instruments; selecting feeds, speeds, tooling and operation sequence; and making necessary adjustments during operation to achieve requisite tolerances or dimensions. May be required to recognize when tools need dressing, to dress tools, and to select proper coolants and cutting and lubricating oils.

This occupation includes operators employed in the construction of machine shop dies, tools, gages, jigs, etc., produced for sale as the end product of an establishment, as well as operators engaged in making or maintaining these items for use within the establishment. Thus, most class A machine-tool operators in establishments classified in SIC 3544 will be classified as machine-tool operators, toolroom.

For wage survey purposes, workers are classified according to the number of types of machine tools they normally are required to operate, as follows:

Operates only one type of machine tool.

Operates more than one type of machine tool.

Machinist, maintenance

Produces replacement parts and new parts in making repairs of metal parts in mechanical equipment operated in an establishment. Work involves most of the following: Interpreting written instructions and specifications; planning and laying out of work; using a variety of machinist's handtools and precision measuring instruments; setting up and operating standard machine tools; shaping of metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds and speeds of machining; knowledge of the working properties of the common metals; selecting standard materials, parts, and equipment required for his work; fitting and assembling parts into mechanical equipment. In general, the machinist's work normally requires a rounded training in machine-shop practice usually acquired through a formal apprenticeship or equivalent training and experience.

Machinist, production

Fabricates metal parts involving a series of progressive operations. Work involves most of the following: Interpreting written instructions and specifications; planning and laying out work; using a variety of machinist's handtools and precision measuring instruments; setting up and operating standard machine tools; shaping metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds and speeds of machining; knowledge of the working properties of the common metals; selecting standard materials, parts, and equipment needed for his work; fitting and assembling parts. In general, the machinist's work normally requires a rounded training in machine-shop practice usually acquired through a formal apprenticeship or equivalent training and experience.

Mechanic, maintenance

Repairs machinery or mechanical equipment of an establishment. Work involves most of the following: Examining machines and mechanical equipment to diagnose source of trouble; dismantling or partly dismantling machines and performing repairs that mainly involve the use of handtools in scraping and fitting parts; replacing broken or defective parts with items obtained from stock; ordering the production of a replacement part by a machine shop or sending of the machine to a machine shop for major repairs; preparing written specifications for major repairs or for the production of parts ordered from machine shop; reassembling machines; and making all necessary adjustments for operation. In general, the work of a maintenance mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Excluded from this classification are workers whose primary duties involve setting up or adjusting machines.

Milling-machine operator

(Milling-machine operator, automatic; milling-machine operator, hand)

Performs a variety of work such as grooving, planing, and shaping metal objects on a milling machine, which removes material from metal surfaces by the cutting action of multitoothed rotating cutters of various sizes and shapes. Milling-machine types vary from the manually controlled machines employed in unit production to fully automatic (conveyor-fed) machines found in plants engaged in mass production. For wage study purposes, operators of single-purpose millers such as thread millers, duplicators, diesinkers, pantograph millers and engraving millers are excluded. (For description of class of work see machine-tool operator, production.)

Polisher and buffer, metal

Polishes (or buffs) various metal objects to produce a smooth surface or a high luster. Uses a variety of portable polishers or buffers and/or holds objects against polishing and buffing wheels, straps, belts, and shafts on stationary machines. Work involves most of the following: Attaining a smooth surface and removing flaws and machine marks on a variety of objects involving the maintenance of contours, radii, and uniformity of shape; polishing and/or buffing to close tolerances; selecting proper wheels, shafts, belts, abrasives, and polishing compounds; and setting up the equipment and maintaining wheels. In general, metal polishers and buffers in this classification are required to perform operations which involve a rounded knowledge of the trade, usually acquired through a formal apprenticeship or equivalent training and experience.

Polishing- and buffing-machine operator

Polishes (or buffs) metal objects to produce a smooth surface or high luster by holding objects against rapidly rotating wheels, belts, or straps on a stationary machine set up to achieve a specialized phase of polishing or buffing on a repetitive basis. Work involves one of the following: Setting up and operating machine where wheels and abrasive and polishing compounds are prescribed; polishing or buffing which involves the maintenance of contours, radii, and uniformity of shape on machines set up by others. May select polishing compounds and abrasives on machines set up by others.

Punch-press operator

Feeds and operates a power press equipped with special production dies that perform one or a combination of cutting and shaping operations on the stock. Individual pieces of stock or partly fabricated units may be positioned in the machine by the operator, or the machine may be equipped with a feeding device that automatically positions single pieces of stock or repetitively positions strip or sheet stock for successive operations.

Punch presses are commonly designated by functional names derived from the operation they perform, such as blanking press or forming press; by names descriptive of the frame, such as arch press; or by names that indicate how the power is transmitted, such as crank press or toggle press.

Class A. Work involves any combination of the following: Difficult positioning of work units because of size or shape, or type of

operation to be performed; processing unusually large work that is positioned in the press with the aid of other workers; processing work units that must be steadied while operations are being performed; deep drawing or forming operations requiring careful positioning of work and prompt recognition of faulty operation; short-run work requiring ability to perform a variety of punch-press operations or to operate several types of presses; examining output and making adjustments as necessary to maintain production within standards; setting, alining and adjusting dies and fixtures in the press.

Class B. Required mainly to feed, control, and examine operation of the press, and when trouble occurs to call on foreman, leadman, or diemaker to correct the situation. Work involves one or more of the following: Performing single operations, such as punching, blanking, or piercing on small or medium size stock easily positioned by hand; feeding small units into the press from a feed race or chute; loading and tending a press equipped with a feeding device for handling a strip or sheet stock, or a dial drum, magazine, or hopper feed for handling individual stock blanks.

Screw-machine operator, automatic

Operates one or more multiple- or single-spindle automatic screw machines. Automatic screw machines are production turning machines with automatic-feed cycle designed to produce parts from bar or tube stock fed automatically through spindles or the head stock. These machines, equipped with from 1 to 8 spindles or a turret, automatically perform and repeat a cycle of operations on each length of stock fed into the machine. (For description of class of work, see machine-tool operator, production.)

Setup man, machine tools

Sets up machine tools (including numerically controlled machine tools) so that metal-fabricating operations can be maintained by operators of these machines. Work involves most of the following: Working from drawings, blueprints, job lay-outs, or other written specifications; determining feeds, speeds, tooling and operation sequence; installing cutting tools and adjusting guides, stops, working tables, and other controls to handle the size of stock to be machined; operating and adjusting machines until parts produced conform with specifications; and, after turning over machines to regular operators, making necessary adjustments to setups during course of operation to maintain accurate production.

Tool and diemaker

(Diemaker; mold maker; jig maker; tool maker; fixture maker; gage maker)

Constructs and repairs machine-shop tools, gages, jigs, fixtures, or dies for forgings, punching and other metal or plastics-forming work. Work involves most of the following: Planning and laying out of work from models, blueprints, drawings, or other oral and written specifications; using a variety of tool and diemaker's handtools and precision measuring instruments; understanding of the working properties of common metals and alloys; setting up and operating of machine tools and related equipment; making necessary shop computations relating to dimensions of work, speeds, feeds, and tooling of machines; heat-treating of metal parts during fabrication as well as of finished tools and dies to achieve required qualities; working to close tolerances; fitting and assembling of parts to prescribed tolerances and allowances; selecting appropriate materials, tools, and processes. In general, the tool and diemaker's work requires a rounded training in machine shop and toolroom practice usually acquired through a formal apprenticeship or equivalent training and experience. Excludes die sinkers.

For wage study purposes, tool and diemakers are classified as follows:

Tool and diemakers (jobbing). Workers making dies and tools, die sets, jigs and fixtures, etc., as the end product of the establishment.

Tool and diemakers (other than jobbing). Workers making and/or maintaining dies and tools, die sets, jigs and fixtures, etc., for use within the establishment.

Tool clerk

(Stores clerk; tool checker; tool crib attendant; tool handler; tool keeper; toolman)

Receives, stores, and issues handtools, machine tools, dies, and equipment, such as measuring devices and materials, in industrial establishments. Work consists of most of the following: Keeps records of loaned tools; searches for lost or misplaced tools; prepares periodic inventory and requisitions stock as needed; unpacks and stores new equipment; and reports damaged and worn-out equipment to superiors. May carry tools or move them on trucks to workers, and may make minor tool repairs.

Turret-lathe operator, hand. (including hand screw-machine)

Operates a lathe equipped with a turret used to present a number of cutting tools, required for a cycle of machining operations, to the work in sequence. Operations commonly performed on a turret lathe include turning, facing, boring, drilling, and threading. The operator rotates or indexes the turret to bring the tools toward the work for each operation. Individual workpieces, such as forgings and castings, are held in a chuck or the lathe may be equipped with a bar stock feeding device to present the correct length of stock to the tools at the beginning of each cycle of operations. (For description of class of work, see machine-tool operator, production.)

Welder, hand

Fuses (welds) metal objects by means of an oxyacetylene torch or arc welding apparatus in the fabrication of metal shapes and in repairing broken or cracked metal objects. In addition to performing hand welding or brazing operation, the welder may also lay out guide lines or marks on metal parts and may cut metal with cutting torch.

Class A. Performs welding operations requiring most of the following: Planning and laying out of work from drawings, blueprints, or other written specifications; knowledge of welding properties of a variety of metals and alloys, setting up work and determining operation sequence; welding high pressure vessels or other objects involving critical safety and load requirements; and working from a variety of positions.

Class B. Performs welding operations on repetitive work, where no critical safety and load requirements are involved; where the work calls mainly for one-position welding; and where the layout and planning of the work are performed by others.

Welder, machine

(Butt welder; flash welder; seam welder; spot welder)

Operates one or more types of resistance welding apparatus to weld (bond) together metal objects such as bars, pipes, and plates. Resistance welding is a process wherein an electric current is passed through the parts to be welded at the point of contact, and mechanical pressure is applied forcing the contact surfaces together at the points to be joined. Welding machines are generally designed according to type of weld performed and arrangement of welding surfaces of parts to be joined. Welds may be made on overlapping units in the form of one spot or more (spot welding) or lineally by using a rolling

electrode (seam welding). Machine welding of units where the edges are brought together without lapping is referred to as butt welding.

Class A. Work involves most of the following: Working from layout or other specifications; knowledge of welding properties of a variety of metals and alloys; selecting and setting up work-holding fixtures and electrodes; determination of proper pressures, temperatures, timing, and flow of current; determination of number and spacing of welds;

positioning and welding units with or without fixtures; and using such handtools as hammers, pliers, files, and wrenches.

Class B. Work involves: Performing repetitive welding operations on standard units where current settings and electrodes are prescribed or set by others; and using fixtures for positioning work or positioning by hand small parts requiring simple welding operations.

Industry Wage Studies

The most recent reports for industries included in the Bureau's program of industry wage surveys since January 1960 are listed below. Copies are available from the Superintendent of Documents, U.S. Government Printing Office,

Washington, D.C., 20402, or any of its regional sales offices, and from the Bureau of Labor Statistics, Washington, D.C., 20212, or from any of its regional offices shown on the inside back cover.

I. Occupational Wage Studies

Manufacturing

	Price
Basic Iron and Steel, 1967. BLS Bulletin 1602.....	\$0.55
Candy and Other Confectionery Products, 1970. BLS Bulletin 1732.....	.45
Cigar Manufacturing, 1967. BLS Bulletin 1581.....	.25
Cigarette Manufacturing, 1971. BLS Bulletin 1748.....	.30
Cotton and Man-Made Fiber Textiles, 1968. BLS Bulletin 1637.....	1.00
Fabricated Structural Steel, 1969. BLS Bulletin 1695.....	.50
Fertilizer Manufacturing, 1966. BLS Bulletin 1531.....	.30
Flour and Other Grain Mill Products, 1967. BLS Bulletin 1576.....	.25
Fluid Milk Industry, 1964. BLS Bulletin 1464.....	.30
Footwear, 1968. BLS Bulletin 1634.....	.75
Hosiery, 1970. BLS Bulletin 1743.....	.75
Industrial Chemicals, 1965. BLS Bulletin 1529.....	.40
Iron and Steel Foundries, 1967. BLS Bulletin 1626.....	1.00
Leather Tanning and Finishing, 1968. BLS Bulletin 1618.....	.55
Machinery Manufacturing, 1968. BLS Bulletin 1664.....	.65
Meat Products, 1969. BLS Bulletin 1677.....	1.00
Men's and Boys' Shirts (Except Work Shirts) and Nightwear, 1968. BLS Bulletin 1659.....	.65
Men's and Boys' Suits and Coats, 1970. BLS Bulletin 1716.....	1.00
Miscellaneous Plastics Products, 1969. BLS Bulletin 1690.....	.60
Motor Vehicles and Parts, 1969. BLS Bulletin 1679.....	.75
Nonferrous Foundries, 1970. BLS Bulletin 1726.....	.50
Paints and Varnishes, 1970. BLS Bulletin 1739.....	.60
Paperboard Containers and Boxes, 1970. BLS Bulletin 1719.....	1.25
Petroleum Refining, 1965. BLS Bulletin 1526.....	.30
Pressed or Blown Glass and Glassware, 1970. BLS Bulletin 1713.....	.50
Pulp, Paper, and Paperboard Mills, 1967. BLS Bulletin 1608.....	.60
Southern Sawmills and Planing Mills, 1969. BLS Bulletin 1694.....	.50
Structural Clay Products, 1969. BLS Bulletin 1697.....	.65
Synthetic Fibers, 1970. BLS Bulletin 1740.....	.40
Synthetic Textiles, 1965. BLS Bulletin 1509.....	.40
Textile Dyeing and Finishing, 1965-66. BLS Bulletin 1527.....	.45
West Coast Sawmilling, 1969. BLS Bulletin 1704.....	.45

I. Occupational Wage Studies—Continued

Manufacturing—Continued

	Price
Women's and Misses' Coats and Suits, 1970. BLS Bulletin 1728.....	\$0.35
Women's and Misses' Dresses, 1968. BLS Bulletin 1649.....	.45
Wood Household Furniture, Except Upholstered, 1968. BLS Bulletin 1651.....	.60
Wool Textiles, 1966. BLS Bulletin 1551.....	.45
Work Clothing, 1968. BLS Bulletin 1624.....	.50

Nonmanufacturing

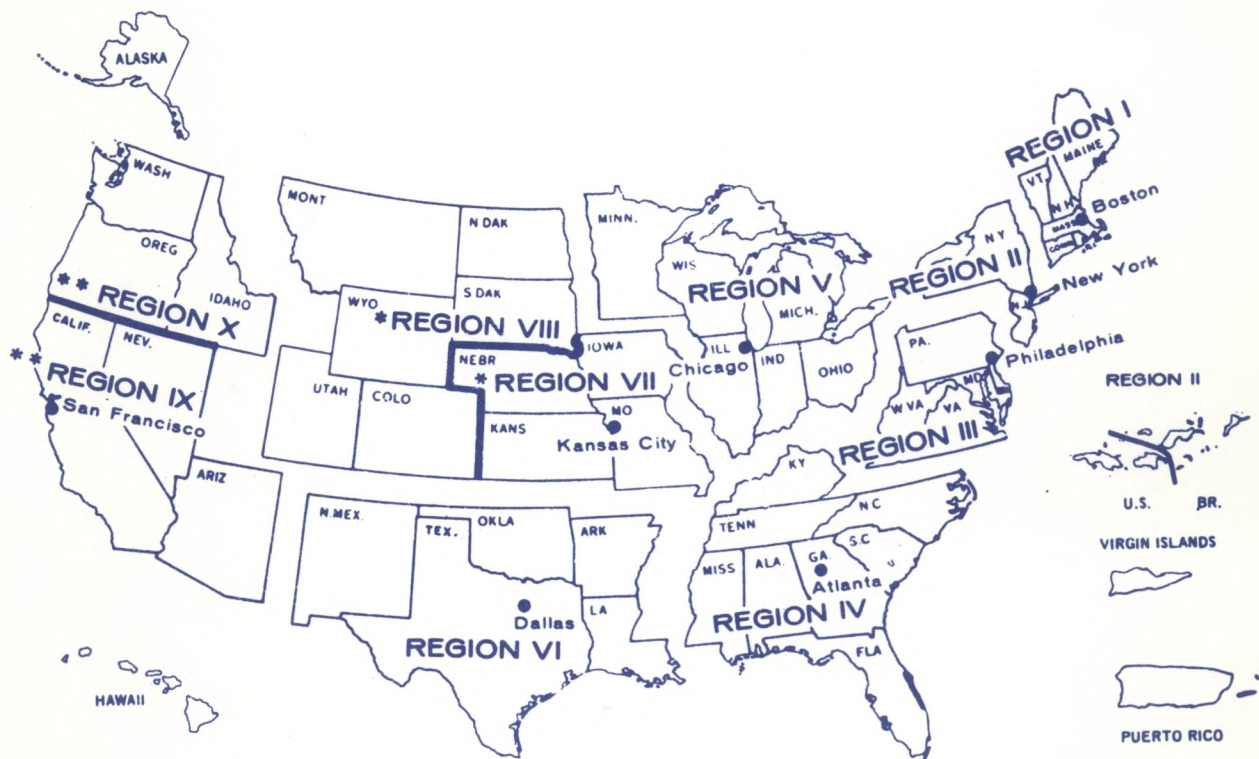
Auto Dealer Repair Shops, 1969. BLS Bulletin 1695.....	.50
Banking, 1969. BLS Bulletin 1703.....	.65
Bituminous Coal Mining, 1967. BLS Bulletin 1583.....	.50
Communications, 1968. BLS Bulletin 1662.....	.30
Contract Cleaning Services, 1968. BLS Bulletin 1644.....	.55
Crude Petroleum and Natural Gas Production, 1967. BLS Bulletin 1566.....	.30
Educational Institutions: Nonteaching Employees, 1968-69. BLS Bulletin 1671.....	.50
Electric and Gas Utilities, 1967. BLS Bulletin 1614.....	.70
Hospitals, 1969. BLS Bulletin 1688.....	1.00
Laundry and Cleaning Services, 1968. BLS Bulletin 1645.....	.75
Life Insurance, 1966. BLS Bulletin 1569.....	.30
Motion Picture Theaters, 1966. BLS Bulletin 1542.....	.35
Nursing Homes and Related Facilities, 1967-68. BLS Bulletin 1638.....	.75
Scheduled Airlines, 1970. BLS Bulletin 1734.....	.45
Wages and Tips in Restaurants and Hotels, 1970. BLS Bulletin 1712.....	.60

II. Other Industry Wage Studies

Employee Earnings and Hours in Nonmetropolitan Areas of the South and North Central Regions, 1965. BLS Bulletin 1552.....	.50
Employee Earnings and Hours in Eight Metropolitan Areas of the South, 1965. BLS Bulletin 1533.....	.40
Employee Earnings and Hours in Retail Trades, June 1966—	
Retail Trade (Overall Summary). BLS Bulletin 1584.....	1.00
Building Materials, Hardware, and Farm Equipment Dealers. BLS Bulletin 1584-1.....	.30
General Merchandise Stores. BLS Bulletin 1584-2.....	.55
Food Stores. BLS Bulletin 1584-3.....	.60
Automotive Dealers and Gasoline Service Stations. BLS Bulletin 1584-4.....	.50
Apparel and Accessory Stores. BLS Bulletin 1584-5.....	.55
Furniture, Home Furnishings, and Household Appliance Stores. BLS Bulletin 1584-6.....	.50
Miscellaneous Retail Stores. BLS Bulletin 1584-7.....	.65

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REGIONAL OFFICES



Region I
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 Government Center
 Boston, Mass. 02203
 Phone: 223-6762 (Area Code 617)

Region V
 8th Floor, 300 South Wacker Drive
 Chicago, Ill. 60606
 Phone: 353-1880 (Area Code 312)

Region II
 1515 Broadway
 New York, N.Y. 10036
 Phone: 971-5405 (Area Code 212)

Region VI
 1100 Commerce St., Rm. 6B7
 Dallas, Tex. 75202
 Phone: 749-3516 (Area Code 214)

Region III
 406 Penn Square Building
 1317 Filbert St.
 Philadelphia, Pa. 19107
 Phone: 597-7796 (Area Code 215)

Region VII and VIII
 Federal Office Building
 911 Walnut St., 15th Floor
 Kansas City, Mo. 64106
 Phone: 374-2481 (Area Code 816)

Region IV
 Suite 540
 1371 Peachtree St. NE.
 Atlanta, Ga. 30309
 Phone: 526-5418 (Area Code 404)

Region IX and X
 450 Golden Gate Ave.
 Box 36017
 San Francisco, Calif. 94102
 Phone: 556-4678 (Area Code 415)

- * Regions VII and VIII are serviced by Kansas City.
- ** Regions IX and X are serviced by San Francisco.

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